



# STIC Search Report

## EIC 2600

STIC Database Tracking Number: 122585

TO: Michael L Burleson  
Location: PK1 – 4C39  
Art Unit : 2616  
Wednesday, May 26, 2004

Case Serial Number: 09693973

From: Vamshi Kalakuntla  
Location: EIC 2600  
PK2-3C03  
Phone: 306-0254

Vamshi.kalakuntla@uspto.gov

### Search Notes

Dear Michael L Burleson;

Attached please find the results of your search request 09693973.  
I used the search strategy I emailed to you to edit.  
I searched the standard Dialog files, and the Internet.

If you would like a re-focus please let me know.  
Please feel free to contact me if you have questions or concerns. Thank you and have a great day.

*Please take a moment and fill out the attached feedback form. Thank you.*

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Michael Barleson Examiner #: 80230 Date: 5/20/04  
 Art Unit: 2626 Phone Number 305-8683 Serial Number: 09693973  
 Mail Box Location: CPK14C39 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.  
 \*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Method of and Apparatus For Generating Proof

Inventors (please provide full names): Kand

Earliest Priority Filing Date: 10/23/00

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

- generating a proof
- converting image data D (CMYK), processed by a first device into image data D' (CMYK) to be processed by second device
- generating a conversion table for converting D into D' while saving area percentage

(see other sheet)

## STAFF USE ONLY

Searcher: Vamsi Kalakuntla

Searcher Phone #: PK2 7033060254

Searcher Location: PK2-3C02

Date Searcher Picked Up: 05/25/04 2PM

Date Completed: 05/26/04 1PM

Searcher Prep & Review Time: \_\_\_\_\_

Clerical Prep Time: \_\_\_\_\_

Online Time: \_\_\_\_\_

## Type of Search

NA Sequence (#) \_\_\_\_\_

AA Sequence (#) \_\_\_\_\_

Structure (#) \_\_\_\_\_

Bibliographic ☒ \_\_\_\_\_

Litigation ☒ \_\_\_\_\_

Fulltext ☒ \_\_\_\_\_

Patent Family \_\_\_\_\_

Other \_\_\_\_\_

## Vendors and cost where applicable

STN \_\_\_\_\_

Dialog \_\_\_\_\_

Questel/Orbit \_\_\_\_\_

Dr.Link \_\_\_\_\_

Lexis/Nexis \_\_\_\_\_

Sequence Systems \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other (specify) \_\_\_\_\_

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Michael Burleson Examiner #: 80130 Date: 5/29/04  
 Art Unit: 2626 Phone Number 30 5-8683 Serial Number: 09693973  
 Mail Box Location: CPK1 4C39 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.  
 \*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

- generate \$4 proof

- (convert \$3 or change) (process \$3) (first device) (into) (C'M'X'K')

(process \$3) (second device)

- (generate \$4) (conversion table for convert \$3 (CMYK to C'M'Y'K'))

- (saw \$3) (area percentage or dot area percentage) (of black image, produce \$3 from image data (K or black)) (by first device where image data K = 0% or 100%)

\*\*\*\*\*

## STAFF USE ONLY

## Type of Search

## Vendors and cost where applicable

Searcher: \_\_\_\_\_

NA Sequence (#) \_\_\_\_\_

STN \_\_\_\_\_

Searcher Phone #: \_\_\_\_\_

AA Sequence (#) \_\_\_\_\_

Dialog \_\_\_\_\_

Searcher Location: \_\_\_\_\_

Structure (#) \_\_\_\_\_

Questel/Orbit \_\_\_\_\_

Date Searcher Picked Up: \_\_\_\_\_

Bibliographic \_\_\_\_\_

Dr.Link \_\_\_\_\_

Date Completed: \_\_\_\_\_

Litigation \_\_\_\_\_

Lexis/Nexis \_\_\_\_\_

Searcher Prep & Review Time: \_\_\_\_\_

Fulltext \_\_\_\_\_

Sequence Systems \_\_\_\_\_

Clerical Prep Time: \_\_\_\_\_

Patent Family \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Online Time: \_\_\_\_\_

Other \_\_\_\_\_

Other (specify) \_\_\_\_\_

File 9:Business & Industry(R) Jul/1994-2004/May 25  
     (c) 2004 The Gale Group  
 File 15:ABI/Inform(R) 1971-2004/May 25  
     (c) 2004 ProQuest Info&Learning  
 File 16:Gale Group PROMT(R) 1990-2004/May 26  
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     (c) 2004 The Dialog Corp.  
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     (c) 2004 The Gale group  
 File 75:TGG Management Contents(R) 86-2004/May W3  
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     (c) 2004 The Gale Group  
 File 98:General Sci Abs/Full-Text 1984-2004/May  
     (c) 2004 The HW Wilson Co.  
 File 112:UBM Industry News 1998-2004/Jan 27  
     (c) 2004 United Business Media  
 File 141:Readers Guide 1983-2004/May  
     (c) 2004 The HW Wilson Co  
 File 148:Gale Group Trade & Industry DB 1976-2004/May 26  
     (c)2004 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2004/May 26  
     (c) 2004 The Gale Group  
 File 264:DIALOG Defense Newsletters 1989-2004/May 25  
     (c) 2004 The Dialog Corp.  
 File 369:New Scientist 1994-2004/May W3  
     (c) 2004 Reed Business Information Ltd.  
 File 484:Periodical Abs Plustext 1986-2004/May W3  
     (c) 2004 ProQuest  
 File 553:Wilson Bus. Abs. FullText 1982-2004/May  
     (c) 2004 The HW Wilson Co  
 File 570:Gale Group MARS(R) 1984-2004/May 26  
     (c) 2004 The Gale Group  
 File 608:KR/T Bus.News. 1992-2004/May 26  
     (c)2004 Knight Ridder/Tribune Bus News  
 File 620:EIU:Viewswire 2004/May 25  
     (c) 2004 Economist Intelligence Unit  
 File 613:PR Newswire 1999-2004/May 25  
     (c) 2004 PR Newswire Association Inc  
 File 621:Gale Group New Prod.Annou. (R) 1985-2004/May 25  
     (c) 2004 The Gale Group  
 File 623:Business Week 1985-2004/May 21  
     (c) 2004 The McGraw-Hill Companies Inc  
 File 624:McGraw-Hill Publications 1985-2004/May 25  
     (c) 2004 McGraw-Hill Co. Inc  
 File 634:San Jose Mercury Jun 1985-2004/May 25  
     (c) 2004 San Jose Mercury News  
 File 635:Business Dateline(R) 1985-2004/May 25  
     (c) 2004 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2004/May 26  
     (c) 2004 The Gale Group  
 File 647:CMP Computer Fulltext 1988-2004/May W3  
     (c) 2004 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2004/May W3  
     (c) 2004 IDG Communications  
 File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	10461	CMYK OR CYAN()MAGENTA()YELLOW()BLACK
S2	3280	(GENERAT? OR CREAT? OR DEVELOP? OR PRODUC? OR WHIP? ?(W)UP OR MANIPULAT?)()PROOF? ?
S3	6235	(CONVERSION OR TRANSLAT?) (2N)TABLE? ?
S4	382	(AREA? ? OR REGION? ?) (2N) (PERCENT? OR PERCENTAGE OR %) (2N- ) (BLACK OR K)
S5	84500	(BLACK OR K) (3N) (0 OR 100)
S6	205	(SAVE OR SAVES OR SAVING OR STORE OR STORING) (5N)S5
S7	567197	(MULTIPLE OR MULTI OR PLURAL? OR MANY OR SEVERAL OR NUMER? OR MANIFOLD OR VARIABLE OR VARIOUS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS)
S8	161	S1(S) (S2 OR S3 OR S4 OR S5 OR S6 OR S7)
S9	458	AU=(KONDO, H? OR KONDO H?) OR CO=FUJI
S10	0	S8 AND S9
S11	12	S1(S)S2
S12	33	S1(S)S3
S13	2	S1(S)S4
S14	29	S1(S)S5
S15	0	S1(S)S6
S16	85	S1(S)S7
S17	41	RD S16 (unique items)
S18	30	S17 NOT PY>1999
S19	76	S11 OR S12 OR S13 OR S14
S20	40	RD S19 (unique items)
S21	33	S20 NOT PY>1999
S22	0	S21(S)S18
S23	0	S21 AND S18
S24	11	(S18 OR S21) (S)PROOF? ?
S25	1	RD S13 (unique items)
S26	1	S25 NOT S24

24/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01146803 97-96197

**Highlights of Seybold, Graph Expo**

Anonymous

American Printer Links Supplement PP: 32-42 Dec 1995

ISSN: 0744-6616 JRNL CODE: APR

WORD COUNT: 3524

...TEXT: from Encad and Hewlett Packard.

Circle 509 on Reader Card

Desktop color proofer

Eastman Kodak's desktop color proofer 9000 generates color-managed, two-page **proofs** from PostScript or raster image files. The digital cornerstone system uses a **CMYK** donor ribbon to **produce proofs** with a close match to final press sheets. It handles publication grade and commercial grade paper, and produces full-bleed prints with crop marks for a 12.16 x 18-inch total image area. A MIPS R4600 processor, operating at 133MHz, prints a four-color **proof** using the maximum image area in approximately four minutes. The unit features \$8 MB of RAM, and ships with built-in ports for SCSI, Centronics...

24/3,K/2 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

06496436 Supplier Number: 55192730 (USE FORMAT 7 FOR FULLTEXT)  
**Brother Printer Sacrifices Quality for Portability.** (Brother International  
MP-21C color ink jet printer) (Hardware) (Hardware Review) (Evaluation)

Bailes, Lenny

Windows Magazine, p65

August 1, 1999

Language: English Record Type: Fulltext

Article Type: Evaluation

Document Type: Magazine/Journal; General Trade

Word Count: 381

... may be just what you're looking for. You can use it in a hotel room to produce acceptable near-letter-quality text or passable **production proofs** in full **CMYK** color.

--Quick View--

Brother MP-21C Mobile Color Ink Jet Printer

Bottom Line: A good portable ink jet that delivers acceptable print quality for near...

24/3,K/3 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05608816 Supplier Number: 48486720 (USE FORMAT 7 FOR FULLTEXT)  
**New Imation Rainbow Inkjet Transfer System Provides Breakthrough Digital Proofing Solution for Packaging Industry.**

Business Wire, p5181353  
May 18, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 996

... customers who also use Imation Rainbow Spectral Profiler software can create custom profiles for specific press processes -- including flexographic and gravure -- and non-standard, non- CMYK , custom corporate color sets. The Rainbow Ink Jet Transfer system enables an unprecedented ability to create proofs and mock-ups to match the look and feel of a final package.

"Our customers have told us that reducing cycle times is key. The...

24/3,K/4 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

03874491 SUPPLIER NUMBER: 13703585 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Picture perfect: continuous-tone printers. (eight continuous-tone color printers are evaluated)(includes related articles on dither and tone, new printers about to debut, the testing process, the move to raster-image processors, tech-support ratings, and printer recommendations) (Hardware Review) (Cover Story) (Evaluation)

Fraser, Bruce

MacUser, v9, n5, p150(12)

May, 1993

DOCUMENT TYPE: Evaluation ISSN: 0884-0997 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 5057 LINE COUNT: 00387

... used a suite of documents designed to simulate typical user requirements and to highlight various aspects of printer performance. First, to test the ability to produce proofs , we designed an ad comp with QuarkXPress 3.0. To test the processing power of the printers, the file contained downloadable fonts, EPS images, and a large CMYK TIFF photographic image.

For digital imaging, we used a stock photo supplied by Stephen Green-Armytage, of The Stock Market. The 21-megabyte, 300-dpi...

24/3,K/5 (Item 1 from file: 112)  
DIALOG(R)File 112:UBM Industry News  
(c) 2004 United Business Media. All rts. reserv.

01167174 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Computer-to-proof: how far have we come?

British Printer , p 10

December, 1998

LANGUAGE: English RECORD TYPE: Fulltext DOC. TYPE: Journal

WORD COUNT: 00001929

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...600dpi, which is said to resemble output at 2400dpi.

Other new inkjet machines aimed at the same market include the Agfajet Everest, an eight-colour multi-density, 600dpi CMYK device which is capable of printing an A1 proof in 15 minutes, the Screen

FP-540J and the A2/A3 Kimoto K-jet.

One of the great advantages with inkjet systems is their ability...

24/3,K/6 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

07512932 SUPPLIER NUMBER: 15728629 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The latest printers for image output: new accent on poster-sized solutions.**  
Bielski, Lauren  
Advanced Imaging, v9, n8, p50(5)  
August, 1994  
ISSN: 1042-0711 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 3916 LINE COUNT: 00311

... with greater color quality on plain paper.

Targeted at artists and designers with a need for continuous tone color-corrected digital prints or simulated matchprint **proofs** of any document, Itochu Technology (Tustin, CA)'s dry silver halide sublimation Pictography 3000 color printers use the company's new Advanced Color Management System (ACMS) to generate **proofs** without the banding, mis-registration or jagged edges that typically besiege dye sub prints, and deliver your pages in under two minutes. ACMS automatically corrects digital image files of up to 32-bit color depth, including files in Postscript format. The ACMS features both **CMYK** and RGB color transformation capabilities, allowing **CMYK** files ready for press and/or RGB files from scanners or monitors to be proofed on the printer.

Lanier (Atlanta, GA)'s 4200 thermal transfer...

24/3,K/7 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02094865 SUPPLIER NUMBER: 19683877 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Imprinta '97, part II: digital presses, imagesetters, scanners, other output. (trade show) (includes related articles on CCD technology and the CIP3 Group's PPF 2.1) (Industry Trend or Event)**  
Seybold Report on Publishing Systems, v26, n20, p3(41)  
July 21, 1997  
ISSN: 0736-7260 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 35150 LINE COUNT: 02700

... Konica. Screen's 540 model can output A2 and A3 pages; the smaller 365 model outputs A3 pages.

The print driver processes gray TIFF and **CMYK** TIFF data from TaigaSpace or PostScript RIPS by using special **conversion tables**, to calibrate **proofs** to the desired output result. **Conversion tables** for the Japanese standard, the Euroscale and the SWOP ink standards are included. The job queue allows unattended proofing because of an automated paper feed...

24/3,K/8 (Item 2 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01560245 SUPPLIER NUMBER: 14460480  
**EfiColor for Adobe Photoshop. (Software Review) (Electronics For Imaging**



Inc.'s color proof creation software package) (Tools) (Evaluation)  
Dosland, Brad  
Publish, v8, n11, p70(1)  
Nov, 1993  
DOCUMENT TYPE: Evaluation ISSN: 0897-6007 LANGUAGE: ENGLISH  
RECORD TYPE: ABSTRACT

ABSTRACT: Electronics For Imaging (EFI) Inc's \$199 EfiColor for Adobe Photoshop color **proof** creation software package offers better, faster, and more consistent color results, although it contains only color-**conversion tables** rather than full conversion profiles. EfiColor translates RGB (Red Green Blue) screen colors into **proofs** that predict final colors reliably and consistently. Consistent results span the entire process, from screen to **proof** to press, as well from program to program. Users are hardly aware of EfiColor's presence as it converts RGB into CYMK ( **Cyan Magenta Yellow black** ) for printing. The program is able to warn users when color conversions fall outside of the printer's range. The color- **conversion tables** are less robust than full conversion profiles, making the program unable to adjust colors in Encapsulated PostScript images.

24/3,K/9 (Item 1 from file: 553)  
DIALOG(R)File 553:Wilson Bus. Abs. FullText  
(c) 2004 The HW Wilson Co. All rts. reserv.

03774000 H.W. WILSON RECORD NUMBER: BWBA98024000 (USE FORMAT 7 FOR FULLTEXT)

**Remote proofing closes the gap.**

Cross, Lisa

Graphic Arts Monthly (Graph Arts Mon) v. 70 (Jan. '98) p. 44-6+

LANGUAGE: English

WORD COUNT: 2402

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... software widely used to color correct output devices.

DryJet from Polaroid Graphics Imaging is a 600 dpi, high-resolution, continuous-tone digital color system that **produces proofs** that mirror the press sheet by accurately imaging text, line work, and images on actual press stocks. The solid ink-jet device prints with eight pigment-based inks: four high-density **CMYK** , three low-density CMK, and one mid-density black.

The DryJet system consists of the print engine, inks, and a full suite of software, including...

24/3,K/10 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01196767 CMP ACCESSION NUMBER: WIN19990801S0039  
**Brother Printer Sacrifices Quality for Portability** (Hardware)  
Lenny Bailes  
WINDOWS MAGAZINE, 1999, n 1008, PG65  
PUBLICATION DATE: 990801  
JOURNAL CODE: WIN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Reviews

WORD COUNT: 385

... may be just what you're looking for. You can use it in a hotel room to produce acceptable near-letter quality text or passable production proofs in full CMYK color.

-Quick View-

Brother MP-21C Mobile Color Ink Jet Printer

Bottom Line: A good portable ink jet that delivers acceptable print quality for near...

24/3,K/11 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01104874 CMP ACCESSION NUMBER: WIN19961001S0130  
PageMaker 6.0 - DTP Is More Adept For Win95  
WINDOWS MAGAZINE, 1996, n 710A, PG112  
PUBLICATION DATE: 961001  
JOURNAL CODE: WIN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Winlab Reviews/Graphics Software  
WORD COUNT: 252

... greatly enhanced PageMaker's color support with Kodak's Color Management System (KCMS) to help ensure color consistency between the screen and input and output devices. PageMaker offers several output enhancements. Color publishers will appreciate the automatic trapping controls, the ability to convert TIFF images to CMYK format for separations and support of HiFi color for six-color separations. Print options added to this version include a graphical settings display, the ability to proof facing pages and the option to save settings as reusable printer "styles."

PageMaker 6.0 PC and Mac files are compatible. You can save documents...

?

26/3,K/1 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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01770964

**VERSATEC ADDS NEW INTEGRATED PLOTTING SOFTWARE PACKAGES WITH ENHANCED  
FUNCTIONALITY TO PRODUCT LINE**

News Release June 30, 1987 p. 1

... or re-define the default colors. Color definition can now be accomplished using several standard color systems allowing the user a choice. Versatec tone patterns **Cyan , magenta , yellow, black area percentages** ( **CMYK** ) red, green, blue (RGB) hue, light, saturation coordinates (HLS) hue, saturation, value coordinates (HSV) x, y, Y coordinates (CIE) light, a, b coordinates (L\*a...  
?

29/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06046980 Supplier Number: 53592967 (USE FORMAT 7 FOR FULLTEXT)  
**Workflow Systems and Components: Asset Managers, Preflight,  
Imposition.(Barco's Impose, Markzware's MarkzScout, Fuji's Valiano  
) (Product Announcement)**  
The Seybold Report on Publishing Systems, v28, n5, p19(1)  
Nov 16, 1998  
Language: English Record Type: Fulltext  
Article Type: Product Announcement  
Document Type: Newsletter; Trade  
Word Count: 205

... customizable, scriptable program for automating early tasks in a  
workflow, such as separating Mac and PC jobs or converting data (e.g., RGB  
images to **CMYK** , JPEG images to TIFF, etc.-see Preflight).

NT versions of popular programs: Moving from NextStep to NT are  
OneVision's DigiScript and DigiServer high-end...  
COMPANY NAMES: Barco; Markzware Software; **Fuji**

29/3,K/2 (Item 1 from file: 112)  
DIALOG(R)File 112:UBM Industry News  
(c) 2004 United Business Media. All rts. reserv.

01035404 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**CHANGING CONTRACTS**  
Printing World , p 34  
May 05, 97  
LANGUAGE: English RECORD TYPE: Fulltext DOC. TYPE: Journal  
WORD COUNT: 00001923

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...and allows the mixing of four-colour process inks with up to three  
other spot colour inks to achieve extra colours unobtainable in the  
conventional **CMYK** gamut. Hexachrome provides amazing colour accuracy  
and vibrancy unheard of with conventional **CMYK** inks.

This new printer is based on the Iris Realist but uses special  
software called GMG Colorproof to obtain the extra colour information.  
The Realist...

...COMPANY NAMES: **Fuji** ;

29/3,K/3 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02108773 SUPPLIER NUMBER: 19840769 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Print '97: new press technology, CTP update, scanners and other news. (1997  
Print trade show) (includes related articles on the Drupa trade show,  
negative and positive laser plates, the drum market and on Pantone's  
color standards) (Industry Trend or Event)**  
Seybold Report on Publishing Systems, v27, n3, p3(36)  
Oct 13, 1997  
ISSN: 0736-7260 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 30611 LINE COUNT: 02323

... dpi, which produces twice as many plates per hour.

On examining samples of SpeedScreen output, we didn't notice any image degradation or artifacts. The CMYK rosettes look conventional under a lens. (IntelliDot uses conventional, not stochastic, screening.) We don't know what techniques Optronics is using to gain this benefit...being shown were the two- and four-page Realist engines. They weren't imaging plates, but Iris was showing how the four ink bottles for CMYK printing had been removed and replaced with two other bottles: the concentrated special solution plus distilled water, with which ...379,000 to as low as \$179,000 offset by corresponding increases in the click charges.

The six-color printing facility, called IndiChrome, uses conventional CMYK Electroinks plus two special ink colors. Color can be mixed either on press or off press. When mixed on press, the system adds orange and violet to CMYK to widen the color gamut. For specific spot colors, ready-mixed Electroinks can be supplied. A unique feature is the ability to mix four-and...in a Macintosh can drive two scanners. Scanned images can be edited using the luminance, chrominance and hue color model in addition to working in CMYK.

Dot-for-dot scanning software will be offered as an option in the first quarter.

Heidelberg boosts Copix performance

The Topaz has been so successful...the press's characteristics, which makes software modeling a meaningful exercise. New inks are giving even the cheapest office printers a wider color gamut than CMYK offset. Color-measurement devices have become quite affordable, and automated meters are available for high-volume shops. Software has also ...way that emulates how the platesetter's RIP will act, BlackMagic works with the actual output of the platesetter's RIP. It reads the four CMYK plate bitmaps (and up to 128 spot-color plates), and then downsamples the data to whatever resolution the proof printer requires. Then it runs the low-resolution data through the specific color-matching routine for the destination printer, transforms the spot colors to the nearest CMYK equivalents (or, for some devices, the nearest three-color equivalents) and prints the job.

(Readers who are familiar with Photoshop, which easily resizes images, may...

...COMPANY NAMES: Fuji --

?

File 348:EUROPEAN PATENTS 1978-2004/May W03

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040520,UT=20040513

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	1696	CMYK OR CYAN()MAGENTA()YELLOW()BLACK
S2	182	(GENERAT? OR CREAT? OR DEVELOP? OR PRODUC? OR WHIP? ?(W)UP OR MANIPULAT?)()PROOF? ?
S3	8558	(CONVERSION OR TRANSLAT?) (2N)TABLE? ?
S4	73	(AREA? ? OR REGION? ?) (2N) (PERCENT? OR PERCENTAGE OR %) (2N- ) (BLACK OR K)
S5	81059	(BLACK OR K) (3N) (0 OR 100)
S6	104	(SAVE OR SAVES OR SAVING OR STORE OR STORING) (5N)S5
S7	250250	(MULTIPLE OR MULTI OR PLURAL? OR MANY OR SEVERAL OR NUMER? OR MANIFOLD OR VARIABLE OR VARIOUS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS)
S8	191	S1(S) (S2 OR S3 OR S4 OR S5 OR S6 OR S7)
S9	0	S8 AND IC=B41B
S10	1	S1(S)S2
S11	67	S1(S)S3
S12	0	S1(S)S4
S13	77	S1(S)S5
S14	0	S1(S)S6
S15	71	S1(S)S7
S16	7	(S11 OR S13 OR S15) (S)PROOF? ?
S17	13	S11(S) (S13 OR S15) OR S13(S)S15
S18	21	S10 OR S16 OR S17
S19	21	IDPAT (sorted in duplicate/non-duplicate order)
S20	21	IDPAT (primary/non-duplicate records only)
S21	11	S20 NOT AD=19991021:20020101/PR
S22	9	S21 NOT AD=20020101:20040525/PR
S23	0	(S11 OR S13 OR S15) (S) ((AREA? ? OR REGION? ?) (2N) (PERCENT? OR PERCENTAGE OR %))
S24	7	S1 AND IC=B41B
S25	7	IDPAT (sorted in duplicate/non-duplicate order)
S26	7	IDPAT (primary/non-duplicate records only)
S27	4	S26 NOT AD=19991021:20020101/PR
S28	4	S27 NOT (S22 OR AD=20020101:20040525/PR)

22/3,K/2 (Item 2 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00974435

Method for verifying silver-based lithographic printing plates  
Verfahren zur Überprüfung von auf Silber basierenden Flachdruckplatten  
Procédé de vérification d'une plaque d'impression lithographique à base  
d'argent

PATENT ASSIGNEE:

AGFA-GEVAERT N.V., (200390), Septestraat 27, 2640 Mortsel, (BE),  
(Proprietor designated states: all)

INVENTOR:

Deprez, Lode, c/o Agfa-Gevaert N.V. IIE 3800, Septestraat 27, 2640  
Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 884645 A1 981216 (Basic)  
EP 884645 B1 001227

APPLICATION (CC, No, Date): EP 97201687 970609;

PRIORITY (CC, No, Date): EP 97201687 970609

DESIGNATED STATES: BE; DE; FR; GB

INTERNATIONAL PATENT CLASS: G03F-003/10; G03F-007/07

ABSTRACT WORD COUNT: 114

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200052	534
CLAIMS B	(German)	200052	463
CLAIMS B	(French)	200052	649
SPEC B	(English)	200052	7121
Total word count - document A			0
Total word count - document B			8767
Total word count - documents A + B			8767

22/3,K/3 (Item 3 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00821369

Colour separation method and apparatus for same  
Farbtrennungsverfahren und -vorrichtung  
Procédé et appareil de separation de couleur

PATENT ASSIGNEE:

AGFA-GEVAERT N.V., (200390), Septestraat 27, 2640 Mortsel, (BE),  
(Proprietor designated states: all)

INVENTOR:

Mahy, Marc c/o Agfa-Gevaert, IIE 3800, Septestraat 27, 2640 Mortsel, (BE)  
PATENT (CC, No, Kind, Date): EP 763928 A1 970319 (Basic)  
EP 763928 B1 011010

APPLICATION (CC, No, Date): EP 96200213 960131;

PRIORITY (CC, No, Date): EP 95202499 950915

DESIGNATED STATES: BE; DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 82

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	597
CLAIMS B	(English)	200141	595
CLAIMS B	(German)	200141	534
CLAIMS B	(French)	200141	714
SPEC A	(English)	EPAB97	6247
SPEC B	(English)	200141	6253
Total word count - document A			6845
Total word count - document B			8096
Total word count - documents A + B			14941

...SPECIFICATION dot percentages of black for the most stable colorant solution. The horizontal axis corresponds to lightness value, the vertical axis represents the dot percentage for black ( 0 = 0 %, 1 = 100 %).

Inversion of the printer model for GCR strategies driven by local or global stability  
The main problem with choosing the most stable colorant combination is...

22/3,K/4 (Item 4 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00816330

A method for producing an original image data adjusting table for a proof printing system

Verfahren zur Erzeugung von einer Originalbilddateneinstelltabelle für ein Probedrucksystem

Procede pour generer une table d'ajustement de donnees originale d'images dans un systeme d'essais d'impression

PATENT ASSIGNEE:

Dainippon Screen Mfg. Co., Ltd., (507661), 1-1, Tenjinkitamachi  
Teranouchi-Agaru 4-chome Horikawa-Dori, Kamikyo-ku Kyoto 602, (JP),  
(Proprietor designated states: all)

INVENTOR:

Narazaki, Makoto, Dainippon Screen Mfg. Co., Ltd., 5 Minamiishida-cho,  
Higashikujo, Minami-ku, Kyoto, (JP)

LEGAL REPRESENTATIVE:

Goddard, Heinz J., Dr. (4231), FORRESTER & BOEHMERT Franz-Joseph-Strasse  
38, 80801 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 758181 A2 970212 (Basic)  
EP 758181 A3 970730  
EP 758181 B1 000712

APPLICATION (CC, No, Date): EP 96112726 960807;

PRIORITY (CC, No, Date): JP 95202154 950808

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 142

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200028	321
CLAIMS B	(German)	200028	245
CLAIMS B	(French)	200028	376
SPEC B	(English)	200028	4080



Total word count - document A 0  
Total word count - document B 5022  
Total word count - documents A + B 5022

22/3,K/5 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00683417

Method of and system for predicting a colour reproduction image  
Verfahren und System zur Prädiktion eines Farbreproduktionsbildes  
Procédé et système de prediction d'une image de reproduction en couleurs  
PATENT ASSIGNEE:

FUJI PHOTO FILM CO., LTD., (202401), 210 Nakanuma Minamiashigara-shi,  
Kanagawa-ken, 250-01, (JP), (Proprietor designated states: all)

INVENTOR:

Ohtsuka, Shuichi, c/o Fuji Photo Film Co., Ltd., 798 Miyanodai,  
Kaisei-machi, Ashigarakami-gun, Kanagawa-ken 258, (JP)  
Yoda, Akira, c/o Fuji Photo Film Co., Ltd., 798 Miyanodai, Kaisei-machi,  
Ashigarakami-gun, Kanagawa-ken 258, (JP)  
Usami, Yoshinori, c/o Fuji Photo Film Co., Ltd., 798 Miyanodai,  
Kaisei-machi, Ashigarakami-gun, Kanagawa-ken 258, (JP)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)  
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 653879 A2 950517 (Basic)  
EP 653879 A3 960228  
EP 653879 B1 000517

APPLICATION (CC, No, Date): EP 94118139 941117;

PRIORITY (CC, No, Date): JP 93288344 931117; JP 947735 940127

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 202

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200020	821
CLAIMS B	(German)	200020	603
CLAIMS B	(French)	200020	987
SPEC B	(English)	200020	5893

Total word count - document A 0

Total word count - document B 8304

Total word count - documents A + B 8304

...SPECIFICATION conversion table in the data file 30.

Then, the device color space LUT generator 24 of the image processor 16 generates a device color space **conversion table** for converting color image data in the common color space into color image data in the device color space of the image output unit 14A, and stores the generated device color space **conversion table** in the data file 32 in a step S5. A known process using a look-up table is available for the conversion from color image...

...image data in the colorimetric system of a color printer or a CRT. For example, such a process is disclosed in "Printing CIELab imaging on **CMYK** printing", SPIE Vol. 1670 P316 (1992). If a **plurality** of output **units** including a color printer, a CRT, etc., are available, then it is

possible to switch between a plurality of look-up tables.  
The common color...

22/3,K/6 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00760910 \*\*Image available\*\*

CONSTRAINED MULTI-DIMENSIONAL COLOR TRANSFORMATION  
CONTRAINTES APPLIQUEES A UNE TRANSFORMATION DE COULEUR MULTIDIMENSIONNELLE  
Patent Applicant/Assignee:

IMATION CORPORATION, 1 Imation Place, P.O. Box 64898, Saint Paul, MN  
55164-0898, US, US (Residence), US (Nationality)

Inventor(s):

FISCHER Timothy A, P.O. Box 64898, Saint Paul, MN 55164-0898, US  
ROZZI William A, P.O. Box 64898, Saint Paul, MN 55164-0898, US

Legal Representative:

BAUER William D, Imation Legal Affairs, P.O. Box 64898, Saint Paul, MN  
55164-0898, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200074372 A1 20001207 (WO 0074372)

Application: WO 2000US14376 20000524 (PCT/WO US0014376)

Priority Application: US 99136658 19990528

Designated States: JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 5678

Fulltext Availability:

Detailed Description

Detailed Description

... match. Using a combination of the "full multidimensional" and "do not add chromatic colorants" constraint conditions, the same source color was transformed to (0%, 0%, 0 %, 98%), thereby preserving **black** channel purity, and dot integrity.

Another transformation was made between a SWOP proof condition and an Imation 4700 color proofer (Imation Corp., Oakdale, Minnesota), relying  
...

...match. Applying a combination of the "full multi-dimensional" and "do not add chromatic colorants" constraint conditions, the same source color was transformed to (0%, 0 %, 0 %, 95%). Again, **black** channel purity was achieved, e.g., providing preservation of sharpness and hue consistency for text, shadows, and the like.

12

22/3,K/7 (Item 2 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00479514 \*\*Image available\*\*

A SYSTEM FOR DISTRIBUTING AND CONTROLLING COLOR REPRODUCTION AT MULTIPLE SITES

SYSTEME DE DISTRIBUTION ET DE COMMANDE DE REPRODUCTION DE COULEURS AU NIVEAU DE SITES MULTIPLES

Patent Applicant/Assignee:

IMAGICOLOR CORPORATION,

Inventor(s):

HOLUB Richard A,

MONGEAU Daniel R,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9910866 A1 19990304

Application: WO 98US17579 19980825 (PCT/WO US9817579)

Priority Application: US 9756947 19970825

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ

VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH

CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW

ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 40002

Fulltext Availability:

Detailed Description

Detailed Description

... and

M;

FIG. 9C depicts a hypercube in the coordinates of the Cyan, Magenta, Yellow and Black colorants in which all colors producible with a CMYK printer are contained within the hypercube;

FIG. 9D is an illustration of a data structure for interpolation in 3 dimensions

which may use either pre...

...embodying properties of invertibility and reciprocity; FIGS. 15A and 15B show the constituents of local and shareable components in the

data structure of the Virtual Proof,

FIG. 15C is an example of a tagged file format for the shared components of the

Virtual Proof of FIGS. 15A and 15B;

FIG. 16A is a flow chart of the process for calibrating a rendering device having more than four colorants by...

22/3,K/8 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00471048 \*\*Image available\*\*

ARRANGEMENT FOR MAPPING COLORS BETWEEN IMAGING SYSTEMS AND METHOD THEREFOR  
DISPOSITIF DE CARTOGRAPHIE DE COULEURS ENTRE DES SYSTEMES D'IMAGES ET  
PROCEDE ASSOCIE

Patent Applicant/Assignee:

MINNESOTA MINING AND MANUFACTURING COMPANY,

Inventor(s):

EDGE Christopher J,

FISCHER Timothy A,

ROZZI William A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9901982 A1 19990114

Application: WO 98US11081 19980601 (PCT/WO US9811081)

Priority Application: US 97882561 19970703; US 97909932 19970812

Designated States: JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English  
Fulltext Word Count: 7037

Fulltext Availability:  
Detailed Description

Detailed Description

... color values with a fixed definition of GCR.

This process, however, loses the K channel information or the CMY channel information during the translation between **CMYK** color spaces because the source color values are transformed to a three-dimensional intermediary color space 0 during conversion to destination **CMYK** values. To preserve the K channel information, the error reducer 506 determines optimal K values in the destination color space that correspond to the K...

...be created, for example, by generating a series of source K values ranging from minimum to maximum, fixing the source and destination CMY values at 0, and finding destination K values with minimum AE error relative to each of the source K values. These source and destination K values can be loaded into a lookup table for quick conversion of source K to destination K values. By using error reduction to determine optimal K values in the destination color space, the device link generator 500 preserves K channel information. This 0 results in improved accuracy of the K channel information when converting colors between **CMYK** devices.

After loading the source and destination K values into a lookup table, when the error reducer 506 receives source L\*a\*b' and CMYK...

22/3,K/9 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00298920 \*\*Image available\*\*  
**METHOD AND CALIBRATION APARATUS FOR CALIBRATING COMPUTER MONITORS USED IN THE PRINTING AND TEXTILE INDUSTRIES**  
**PROCEDE ET APPAREIL D'ETALONNAGE DE MONITEURS D'ORDINATEURS UTILISES DANS LES INDUSTRIES DE L'IMPRIMERIE ET DU TEXTILE**

Patent Applicant/Assignee:

FEASEY Michael F,

Inventor(s):

FEASEY Michael F,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9517071 A1 19950622

Application: WO 94US14589 19941216 (PCT/WO US9414589)

Priority Application: US 93169516 19931217

Designated States: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 9028

Fulltext Availability:  
Detailed Description

Detailed Description

... SUBSTITUTE SHEET (RULE 26)

conversion of RGB image values to CMYK values, and from black and white negative or positive digitized cyan, magenta, yellow, black (**CMYK**) color separation images into color **CMYK** image values, This process for the generation of tables of settings is repeated

28/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01289998

**PREDICTION AND PREVENTION OF OFFSET PRINTING PRESS PROBLEMS**  
**VORHERSAGE UND VERHINDERUNG VON PROBLEMEN MIT OFFSETDRUCKMASCHINEN**  
**PREDICTION ET PREVENTION DES PROBLEMES DE PRESSE A IMPRESSION OFFSET**  
PATENT ASSIGNEE:

Creo IL. Ltd., (3082936), 3 Hamada Street, Herzlia 46103, (IL),  
(Proprietor designated states: all)

INVENTOR:

BARAK, Paltiel, Ilanot Street 13, 48570 Rosh Ha'ayin, (IL)  
BRONSTEIN, Refael, Nurit Street 1, 44413 Kfar Saba, (IL)

LEGAL REPRESENTATIVE:

Hofmann, Harald (157101), Sonnenberg Fortmann, Patent- und Rechtsanwälte,  
Herzogspitalstrasse 10a, 80331 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1218184 A1 020703 (Basic)  
EP 1218184 B1 030611  
WO 2001026900 010419

APPLICATION (CC, No, Date): EP 2000966390 001003; WO 2000IL615 001003

PRIORITY (CC, No, Date): US 414819 991008

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B41B-023/00

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200324	689
CLAIMS B	(German)	200324	717
CLAIMS B	(French)	200324	865
SPEC B	(English)	200324	7328
Total word count - document A			0
Total word count - document B			9599
Total word count - documents A + B			9599

INTERNATIONAL PATENT CLASS: B41B-023/00

...SPECIFICATION manual angling of the plate on the press, in a small angle Alpha of typically 1 to 1.5 degrees. The screening angles of the **CMYK** separations (also called 'screen quartet') are generally selected in such a way that they form the recommended minimum-moire pattern by arranging the angles in...

...the press, but rather, each page 192 is rotated in a small, typically 1 to 1.5 degrees angle Alpha. The screening angles of the **CMYK** separations remain, however, oriented with respect to the imaging device axis. Once again, the screen structure 198 and the angle Alpha created by the yellow...to this embodiment, should the system detect a need to angle the plate/image, the angling process will be accompanied by the whole screen quartet ( **CMYK** ) rotation in the same angle Alpha and in the same direction. The screen structure 206 and the 0-degree angle created by the yellow separation...

28/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00974071

A method of managing print files in an electronic prepress system, and system using the method

Verfahren zur Druckdateienverwaltung in einem elektronischen Druckvorbereitungssystem, und System unter Verwendung des Verfahrens  
Procede d'administration de fichiers d'impression dans un systeme electronique de pre-impression, et systeme utilisant le procede

PATENT ASSIGNEE:

Agfa Corporation, (2664340), 100 Challenger Road, Ridgefield Park, NJ  
07660-2199, (US), (Applicant designated States: all)

INVENTOR:

Lucivero, Jeanne M., 11 Wilhelmina Avenue, Burlington, Massachusetts  
01803, (US)

Smith, David D., 22 Chase Road, Londonderry, New Hampshire 03053, (US)

White, Frank P., 16 Gatta Circle, Woburn, Massachusetts, 01801, (US)

Boyle, Robert G., 28 Hampstead Street, Methuen, Massachusetts 01844, (US)

Catt, Jeremy C., 193 Marbleridge Road, North Andover, Massachusetts 01845  
, (US)

LEGAL REPRESENTATIVE:

Van Ostaeyen, Marc Albert Jozef et al (86095), Agfa-Gevaert Corporate IP  
Department, Septestraat 27, 2640 Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 882580 A2 981209 (Basic)  
EP 882580 A3 030402

APPLICATION (CC, No, Date): EP 98201825 980603;

PRIORITY (CC, No, Date): US 869244 970604

DESIGNATED STATES: BE; DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B41B-019/00 ; G06F-017/00; G06K-015/00

ABSTRACT WORD COUNT: 196

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9850	740
SPEC A	(English)	9850	11463
Total word count - document A			12203
Total word count - document B			0
Total word count - documents A + B			12203

INTERNATIONAL PATENT CLASS: B41B-019/00 ...

...SPECIFICATION can be imaged completely before going to the next copy.

For example, a 1 page job of 4 planes with 2 copies would image as CMYK

CMYK . In the alternative, by selecting collation "OFF" 36, each plane  
can be imaged multiple times before going to the next plane. For example,  
the same...

28/3,K/3 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00794877

PREDICTION AND PREVENTION OF OFFSET PRINTING PRESS PROBLEMS

PREDICTION ET PREVENTION DES PROBLEMES DE PRESSE A IMPRESSION OFFSET

Patent Applicant/Assignee:

CREOSCITEX CORPORATION LTD, Hamada Street 3, 46103 Herzlia, IL, IL  
(Residence), IL (Nationality), (For all designated states except: US)  
Patent Applicant/Inventor:  
BARAK Paltiel, Ilanot Street 13, 48570 Rosh Ha'ayin, IL, IL (Residence),  
IL (Nationality), (Designated only for: US)  
BRONSTEIN Refael, Nurit Street 1, 44413 Kfar Saba, IL, IL (Residence), IL  
(Nationality), (Designated only for: US)  
Legal Representative:  
SINAI Henry (agent), Eitan, Pearl, Latzer & Cohen-Zedek, Gav Yam Center  
2, Shenkar Street 7, 46725 Herzlia, IL,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200126900 A1 20010419 (WO 0126900)  
Application: WO 2000IL615 20001003 (PCT/WO IL0000615)  
Priority Application: US 99414819 19991008  
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ  
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 8600

Main International Patent Class: B41B-023/00  
Fulltext Availability:  
Detailed Description

Detailed Description

... the press, but rather, each page 192 is rotated in a small, typically  
1 to 1.5 degrees angle Alpha. The screening angles of the **CMYK**  
separations remain, however, oriented with respect to the imaging device  
axis. Once again, the screen structure 198 and the angle Alpha created by  
the yellow...embodiment, should the system detect a need to angle the  
plate/image, the angling process will be 1 5 accompanied by the whole  
screen quartet ( **CMYK** ) rotation in the same angle Alpha and in the same  
direction. The screen structure 206 and the 0-degree angle created by the  
yellow separation...

28/3,K/4 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00452740 \*\*Image available\*\*

**METHOD AND APPARATUS FOR GENERATING A DISPLAY LIST**  
**PROCEDE ET APPAREIL PERMETTANT DE GENERER UNE LISTE DE VISUALISATION**

Patent Applicant/Assignee:

HARLEQUIN INCORPORATED,  
HARLEQUIN GROUP PLC,

Inventor(s):

BARADA Peter W,  
CAVE Andrew P,  
EARL David J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9843204 A1 19981001

Application: WO 98US5498 19980320 (PCT/WO US9805498)

Priority Application: US 97821849 19970321

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD  
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ  
VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH  
DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR  
NE SN TD TG

Publication Language: English

Fulltext Word Count: 12027

International Patent Class: B41B-019/00 ...

Fulltext Availability:

Detailed Description

#### Detailed Description

... systems commonly use either a three or four color separation system, with the most common system being the four component cyan, magenta, yellow and black ( **CMYK** ) color separation system. However there can be a greater or lesser number of separations depending on the effects in the image that the end-user...preproofing systems are usually a combination of a set of color conversion techniques that convert from one separation system to another separation system, such as **CMYK** to RGB (Red, Green & Blue), and displayed the image from the output from a color printers, or a display on cathode ray tube (CTV) display...

...object will only occur in a PDL separation file if that an object contributes the color that PDL separation file represents. For example, in a **CMYK** system if the output color image had a blue object, which is a combination of cyan and magenta, the blue object would not be listed...holds all of the information about a marking object, the structure of the ListObject used in a preferred embodiment of the present invention for a **CMYK** separation system is as follows.

```
/* Define a point (x,y pair)
typedef struct {
int x, y;
point;
/* Define a polygon (number of points, and array...vertices of the
polygon.
```

'planes' holds a bit for each plane of a ListObject that was seen and processed by a Combine function for a **CMYK** system, bit 0 is for cyan, bit 1 is for magenta, bit 2 is for yellow, and bit 3 is for black.

'marked' holds a bit for each plane of a ListObject that was seen and processed by a Combine function for a **CMYK** system, bit 0 is for cyan, bit 1 is for magenta, bit 2 is for yellow, and bit 3 is for black. These bits are...the z-order at that time. In a preferred embodiment of the present invention a bit mask is used to represent the combinations of the **CMYK** separation colors, with bit 0 being cyan, bit 1 being magenta, bit 2 being yellow, and bit 3 being black.

The first part of the...

?



File 2:INSPEC 1969-2004/May W3  
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File 6:NTIS 1964-2004/May W4  
(c) 2004 NTIS, Intl Cpyrght All Rights Res  
File 8:Ei Compendex(R) 1970-2004/May W3  
(c) 2004 Elsevier Eng. Info. Inc.  
File 34:SciSearch(R) Cited Ref Sci 1990-2004/May W3  
(c) 2004 Inst for Sci Info  
File 35:Dissertation Abs Online 1861-2004/Apr  
(c) 2004 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2004/May W4  
(c) 2004 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2004/May W1  
(c)2004 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2004/May W2  
(c) 2004 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Apr  
(c) 2004 The HW Wilson Co.  
File 144:Pascal 1973-2004/May W3  
(c) 2004 INIST/CNRS  
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
(c) 2003 EBSCO Pub.  
File 239:Mathsci 1940-2004/Jun  
(c) 2004 American Mathematical Society  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning  
File 483:Newspaper Abs Daily 1986-2004/May 21  
(c) 2004 ProQuest Info&Learning  
File 248:PIRA 1975-2004/May W3  
(c) 2004 Pira International

Set	Items	Description
S1	1501	CMYK OR CYAN()MAGENTA()YELLOW()BLACK
S2	664	(GENERAT? OR CREAT? OR DEVELOP? OR PRODUC? OR WHIP? ?(W)UP OR MANIPULAT?)()PROOF? ?
S3	3689281	(IMAGE? ? OR PICTURE? ? OR PHOTO? ? OR GRAPHIC? OR PHOTOGR- APH? ? OR JPG OR JPGS OR JPEG OR JPEGS OR MPEG OR MPEGs OR MPG OR MPGS OR GIF OR GIFS)
S4	2102	(CONVERSION OR TRANSLAT?)(2N)TABLE? ?
S5	39	(AREA? ? OR REGION? ?)(2N)(PERCENT? OR PERCENTAGE OR %)(2N- ) (BLACK OR K)
S6	309214	(BLACK OR K) (3N) (0 OR 100)
S7	0	(SAVE OR SAVES OR SAVING OR STORE OR STORING) (5N)S5
S8	113064	(MULTIPLE OR MULTI OR PLURAL? OR MANY OR SEVERAL OR NUMER? OR MANIFOLD OR VARIABLE OR VARIOUS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS)
S9	1196	S1 AND (S2 OR S3 OR S4 OR S5 OR S6 OR S8)
S10	9621	AU=(KONDO, H? OR KONDO H?) OR CO=FUJI
S11	3	S9 AND S10
S12	2	S1 AND S2
S13	1190	S1 AND S3
S14	4	S1 AND S4
S15	0	S1 AND S5
S16	6	S1 AND S6
S17	12	S1 AND S8
S18	27	S11 OR S12 OR S14 OR S16 OR S17
S19	26	RD S18 (unique items)

S20	15	S19 NOT PY>1999
S21	8	S13 AND (AREA? ? OR REGION? ?) (2N) (PERCENT? OR PERCENTAGE -
		OR %)
S22	4	RD S21 (unique items)
S23	3	S22 NOT (S20 OR PY>1999)

20/3,K/1 (Item 1 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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06763728 E.I. No: EIP04128069170

**Title: A New Approximation Algorithm for Output Device Profile Based on the Relationship between CMYK Ink Values and Colorimetric Values**

Author: Azuma, Yoshihiko; Takahashi, Kazuyoshi; Nonaka, Michitaka; Kaji, Mitsuo

Corporate Source: Tokyo Institute of Polytechnics Faculty of Engineering, Atsugi-City, Kanagawa-ken 243-0297, Japan

Conference Title: Final Program and Proceedings: IS and T's 52nd Annual Conference

Conference Location: Savannah, GA, United States Conference Date: 19990425-19990428

E.I. Conference No.: 62399

Source: Society for Imaging Science and Technology: Image Processing, Image Quality, Image Capture, Systems Conference 1999.

Publication Year: 1999

Language: English

**Title: A New Approximation Algorithm for Output Device Profile Based on the Relationship between CMYK Ink Values and Colorimetric Values**

Identifiers: Output device profile; Color gamut mapping; Color space conversion ; Lookup table (LUT); Under color removal (UCR)

20/3,K/2 (Item 2 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04483044 E.I. No: EIP96043139343

**Title: Image transformation into device-dependent color printer description using 4th-order polynomial regression and object-oriented programming development of image processing modules**

Author: Mongeon, Michael C.

Corporate Source: Xerox Corp., Webster, NY, USA

Conference Title: Color Imaging: Device-Independent Color, Color Hard Copy, and Graphic Arts

Conference Location: San Jose, CA, USA Conference Date: 19960129-19960201

E.I. Conference No.: 22501

Source: Proceedings of SPIE - The International Society for Optical Engineering v 2658 1996. Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. p 341-352

Publication Year: 1996

CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-2032-8

Language: English

...Abstract: leaf comparison between devices. The printer is modeled using 4th-order polynomial regression which maps the device independent CIELAB image representation into device dependent printer CMYK. This technique results in 1.89 AEEavg over the training data set. Some key properties of the proposed calibration method are as follows: (1) Linearized CMYK tone reproduction curves with respect to AEEpaper to improve the distribution of calibration data in color space. (2) Application of GCR strategy and linearization to...

...removal method which maximizes printer gamut and relies on the

regression to determine the appropriate CMY removal. The following GCR strategies are explored: CMY only ( 0 % K addition), 50% K addition, 100 % K addition, and non-linear K addition. A library of image processing algorithms is included, using LabView object oriented programming, which provides a modular approach for...

20/3,K/3 (Item 1 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00554513 Pira Acc. Num.: 20155037

**Title: Short-run printing: influence of paper on print quality**  
Authors: Lie C; Eriksen W; Matsegard V  
Source: IARIGAI 26th international research conference, advances in digital printing, Munich, Germany, 6-8 Sept. 1999, 13pp [Munich, Germany: Papiertechnische Stiftung, 1999] (K, P)  
Publication Year: 1999  
Document Type: Conference Publication  
Language: English

...Abstract: printed samples: subjective analysis of general print quality, print mottle, gloss-mottle, and colour space. Mottle measured in 100% cyan, and glass mottle measured in 100 % black and 400% CMYK showed a clear correlation with paper grade, which was not observed with 30% black. A clear correlation between paper grade and colour gamut was observed...

20/3,K/4 (Item 2 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00466883 Pira Acc. Num.: 20069597

**Title: Store takes PoS printing in-house**  
Authors: Burgess R  
Source: Printweek 13 Dec. 1996, p. 10  
ISSN: 0987-987X  
Publication Year: 1996  
Document Type: Journal Article  
Language: English

...Abstract: and Griffin now does almost 100% of its point of sale work in-house with a Fuji ColorPix large format ink jet print system. The CMYK ink jet is said to produce graphics up to A0 size in under five minutes. The printer can function as a standalone unit, or connected to a PC or Mac. Colchester department store Williams and Griffin is one of East Anglia's largest retailers, and is printing back-lit pictures, shop-front posters and in-store special signs with the ColorPix. (Short article)  
Company Names: Fuji ;

20/3,K/5 (Item 3 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00454840 Pira Acc. Num.: 20058612

**Title: Prepress - what's new?**  
Authors: Mortimer A; Scott-Taggart M  
Source: Professional print buying, Leatherhead, UK, 23 Apr, 1996, 20pp,

Leatherhead, UK: Pira International, 1996, #95.00 (655.1:658.7) (R11614)  
Publication Year: 1996  
Document Type: Conference Publication  
Language: English

...Abstract: format. Kodak's Photo CD developments encompass a broad range of graphic art and commercial applications, including a Macintosh program converting Photo CD images into **CMYK** colour separations. Several colour management systems are available for maintaining consistent colour across various devices. Numerous new, and enhanced proofing systems are introduced. Electronic pre-publishing needs soft proofing on monitors for progress or targets, the new controlled digital methods being...

20/3,K/6 (Item 4 from file: 248)  
DIALOG(R) File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00453659 Pira Acc. Num.: 20057478  
Title: Color management. How to develop a prepress solution to achieve predictable color using open architecture systems  
Authors: Chop K W  
Source: Flexo vol. 21, no. 5, May 1996, pp 90, 92-93  
ISSN: 0734-6980  
Publication Year: 1996  
Document Type: Journal Article  
Language: English

...Abstract: description language, introduced open architecture. This replaced the rigidity of proprietary systems, tying users to one vendor; their colour output was predictable. With open systems, device connectivity creates many problems, particularly colour management. Colour predictability is often lost. All devices and software use their own device-dependent colour space, RGB, LCH, **CMYK**, and others. Devices must be calibrated under controlled lighting, and a colour space appropriate to the computer's operating system and graphics software chosen. Device...

20/3,K/7 (Item 5 from file: 248)  
DIALOG(R) File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00442143 Pira Acc. Num.: 20046884  
Title: PICK YOUR OWN RIP  
Authors: Gray I  
Source: Image Rep. Des. Technol. vol. 2, no. 12, Dec. 1995, pp 20, 22  
Publication Year: 1995  
Document Type: Journal Article  
Language: English

...Abstract: choosing a copier RIP (raster image processor) are set out here in consultation with Kodak's product manager, Ian Buchanen. RIPs mathematically convert RGB to **CMYK** and generally price equates with performance in terms of memory and functionality. The important points are; to have a true Adobe PostScript Level 2 interpreter...

... be able to drive the engines at their full rate of speed. An additional benefit is dual path functionality to enable the RIP to feed multiple devices of a similar or different nature.

20/3,K/8 (Item 6 from file: 248)  
DIALOG(R)File 248:PIRA  
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00441398 Pira Acc. Num.: 20046338

**Title: COLOUR MANAGEMENT IMPROVES QUALITY AND PRODUCTIVITY**

Authors: Holland C

Source: Br. Printer vol. 108, no. 12, Dec. 1995, pp 19-20, 22, 24

ISSN: 0007-1684

Publication Year: 1995

Document Type: Journal Article

Language: English

Abstract: Portable colour is essential with open prepress desktop publishing. The many devices in an open system perceive colour differently, and have diminishing colour reproduction capabilities. Transforming RGB to CMYK adds complications. Portable colour demands standardisation, and relating to a device-independent colour space, such as the preferred CIE. The International Color Consortium profile format...

20/3,K/9 (Item 7 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00373517 Pira Acc. Num.: 10382682 Pira Abstract Numbers: 08-94-PT00220

**Title: DIGITAL SHORT-RUN COLOR: SUDDENLY IT'S A REALITY**

Authors: Clinkunbroomer J

Source: In-Plant Printer Electron. Publ. vol. 33, no. 4, Aug. 1993, pp 14-16

ISSN: 0891-8996

Publication Year: 1993

Document Type: Journal Article

Language: English

...Abstract: receptive blanket cylinder, forming process colour dots. Fused, solid ink is transferred to paper. The DCP-1 comprises a web press, vertically stacked, imaged in CMYK by LED technology, and toned, toner then being fused to the paper. Production speeds of both devices are comparable. (Variable data capability is included).

20/3,K/10 (Item 8 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00340793 Pira Acc. Num.: 10286997 Pira Abstract Numbers: 08-93-PT00876

**Title: SUMMARY OF IT8 COLOUR DEFINITION ACTIVITY**

Authors: McDowell D Q

Source: Paper presented at 21st Research Conference of the International Association of Research Institutes for the Graphic Arts Industry (IARIGAI) held 12-17 May 1991 at Pittsburgh, PA, USA, pp 101-112 [London, UK: Pentech Press, 1992, 353pp, #55.00 (655.001:891) (5964)

Publication Year: 1992

Document Type: Conference Publication

Language: English

...Abstract: Standards Committee, IT8, has created Working Group II to study colour definition requirements relating to prepress electronic data

exchange. Having developed an approach compatible with **graphic** arts needs, work was focused on input scanner calibration targets, for transmission and reflection. The transmission input target represents the joint effort of Kodak, Agfa...

... of films has resulted in a mapping of the colour space common to these films, with definition of unique aspects of each. Work on the **CMYK** target aims to establish a halftone reference for consistent input from different printing processes.

...Company Names: **FUJI** ;

...Descriptors: **GRAPHIC ART**

Section Headings: **Graphic** Reproduction (8230); Theory of Colour Reproduction (8233)

20/3,K/11 (Item 9 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00330707 Pira Acc. Num.: 10160456 Pira Abstract Numbers: 08-92-PT04182

Title: **USING A SMALL LOOK-UP TABLE FOR COLOUR CONVERSION WITHOUT IMPAIRING RESOLUTION (34074)**

Authors: Anon

Source: Res. Disclosure no. 340, Aug. 1992, p. 645

ISSN: 0374-4353

Publication Year: 1992

Document Type: Journal Article

Language: English

Title: **USING A SMALL LOOK-UP TABLE FOR COLOUR CONVERSION WITHOUT IMPAIRING RESOLUTION (34074)**

...Abstract: digital colour copiers, the processing unit adapts signals produced by a scanner for use in controlling the printer, usually converting RGB (red green blue) to **CMYK** (cyan magenta yellow black) via a look-up table, with around 4m entries. Scanner signals for a colour comprise a portion containing the most significant bits, used for the...

20/3,K/12 (Item 10 from file: 248)

DIALOG(R)File 248:PIRA

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00309041 Pira Acc. Num.: 10181115 Pira Abstract Numbers: 08-92-PU01360

Title: **ALL ABOUT COLOR**

Authors: Roth S

Source: Macworld vol. 9, no. 1, Jan. 1992, pp 141-145

ISSN: 0741-8647

Publication Year: 1992

Document Type: Journal Article

Language: English

...Abstract: used in colour printers, slide recorders and printing presses cannot produce the same range of colours. Colour models are examined, and the RGB model and **CMYK** model are discussed in detail. Letraset's Pantone Matching System is mentioned. The four main concepts to understanding colour on the Apple Macintosh are explained. Illustrated examples of colour models are provided, and developments in **several** device -independent colour systems are highlighted.

20/3,K/13 (Item 11 from file: 248)  
DIALOG(R)File 248:PIRA  
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00217430 Pira Acc. Num.: 9680875 Pira Abstract Numbers: 08-91-PT00332  
**Title: 3M PROOFING SYSTEM MATCHES NEWSPRINT**  
Authors: Anon  
Source: Print. News 17 Sept. 1990, p. 24  
ISSN: 1046-8595  
Publication Year: 1990  
Document Type: Journal Article  
Language: English

...Abstract: negative overlay proofing films, in three sizes, for newspapers. They are designed for newspapers and non-heatset printing on newsprint kind of stock. These films **create proofs** of very close visual match to the ANPA standard. There are four new formulated films: **CMYK**, and a new base stock, Reflections, from Consolidated Papers Inc. The films, on clear 0.003in polyester base may be processed manually, or in a...

20/3,K/14 (Item 12 from file: 248)  
DIALOG(R)File 248:PIRA  
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00185649 Pira Acc. Num.: 8629874 Pira Abstract Numbers: 02-89-01658  
**Title: ELECTROPHOTOGRAPHY SPURS COLOUR PROOFING**  
Authors: Kirt R C  
Source: Can. Printer Publ. vol. 96, no. 11, Nov. 1988, pp 39-40  
ISSN: 0008-4816  
Publication Year: 1988  
Document Type: Journal Article  
Language: English

Abstract: Eastman Kodak Co.'s liquid electrophotographic colour proofing system, Signature **produces proofs** emulating the printed page because it has sufficient flexibility to show variations in paper stock, ink density and dot gain. The system is automation-friendly...

... size are smaller than the smallest dots; because they are, or contain SWOP pigments, provide a spectrophotometric match for SWOP inks. The systems microcomputer registers **CMYK** separation films with the piece of photoconductive film for each of four presses through the toner. The composite image is then transferred to the chosen...

20/3,K/15 (Item 13 from file: 248)  
DIALOG(R)File 248:PIRA  
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00177522 Pira Acc. Num.: 8327946 Pira Abstract Numbers: 02-88-37946  
**Title: FLATBED CHALLENGE**  
Authors: Craig J  
Source: Print. World vol. 223, no. 2, 13 July 1988, pp 30-31  
ISSN: 0032-8715  
Publication Year: 1988  
Document Type: Journal Article  
Language: English

...Abstract: Smart Scanner from Scitex. In 1987 Finland had the first



commercial installation. Crosfield's Magnascan 616E is launched this year. The CCD simultaneously reads a **picture** line in RGB, scanning achieved by moving the original across a fixed optical system, colour filters yield accurate reproduction and electronic processing converts RGB signals into **CMYK** for output. Du Pont and Fuji intend jointly developing a CCD system and other companies are interested. Input size for flatbed scanners is currently small...

...Company Names: **FUJI** ;

...Descriptors: **PICTURE** ;

?

23/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6409618 INSPEC Abstract Number: C1999-12-7490-026

Title: A new method for colour measurements in multicoloured newspaper printing

Author(s): Verikas, A.; Malmqvist, K.; Bergman, L.

Author Affiliation: Centre for Imaging Sci. & Technol., Halmstad Univ., Sweden

Conference Title: Engineering Benefits from Neural Networks. Proceedings of the International Conference EANN '98 p.189-96

Editor(s): Bulsari, A.B.; Fernandez de Canete, J.; Kallio, S.

Publisher: Syst. Eng. Assoc, Turku, Finland

Publication Date: 1998 Country of Publication: Finland . v+408 pp.

ISBN: 951 97868 0 5 Material Identity Number: XX-1999-02837

Conference Title: Engineering Benefits from Neural Networks. Proceedings of the International Conference EANN'98

Conference Sponsor: AB Nonlinear Solutions OY; Syst. Eng. Assoc.; Univ. Malaga

Conference Date: 10-12 June 1998 Conference Location: Gibraltar

Language: English

Subfile: C

Copyright 1999, IEE

Abstract: This paper presents a method for colour measurements directly on printed half-tone multicoloured pictures. The paper introduces the concept of colour impression. By this concept we mean the CMY or CMYK vector (colour vector), which lives in the three- or four-dimensional space of printing inks. Two factors contribute to values of the vector components, namely, the percentage of the area covered by cyan, magenta, yellow and black inks (tonal values) and ink densities. The colour vector expresses integrated information about the tonal values and ink...

... shows how much the operator needs to raise or lower the cyan, magenta, yellow and black ink densities in order to correct colours of the picture being measured. The values of the components are obtained by registering the RGB image from the measuring area and then transforming the set of registered RGB values to the triplet or quadruple of CMY or CMYK values respectively. Algorithms based on artificial neural networks are used for performing the transformation. During the experimental investigations we have found a good correlation between...

Descriptors: image colour analysis...

... image registration

...Identifiers: half-tone multicoloured pictures ; ...

... CMYK vector...

... image registration

23/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6253076 INSPEC Abstract Number: A1999-13-0760D-002, B1999-07-6135-003, C1999-07-5260B-010

Title: A new method for colour measurements in graphic arts

Author(s): Verikas, A.; Malmqvist, K.; Malmqvist, L.; Bergman, L.

Author Affiliation: Centre for Imaging Sci. & Technol., Halmstad Univ., Sweden

Journal: Color Research & Application vol.24, no.3 p.185-96

Publisher: Wiley,

Publication Date: June 1999 Country of Publication: USA

CODEN: CREADU ISSN: 0361-2317

SICI: 0361-2317(199906)24:3L:185:MCMG;1-4

Material Identity Number: C252-1999-003

Language: English

Subfile: A B C

Copyright,1999, IEE

**Title: A new method for colour measurements in graphic arts**

**Abstract:** Presents a method for colour measurements directly on printed half-tone multicoloured **pictures**. The article introduces the concept of colour impression. By this concept we mean the CMY or **CMYK** vector (colour vector), which lives in the three- or four-dimensional space of printing inks. Two factors contribute to values of the vector components, namely, the **percentage** of the **area** covered by cyan, magenta, yellow, and black inks (tonal values) and ink densities. The colour vector expresses integrated information about the tonal values and ink...

... shows how much the operator needs to raise or lower the cyan, magenta, yellow, and black ink densities in order to correct colours of the **picture** being measured. The values of the components are obtained by registering the **RGB image** from the measuring area and then transforming the set of registered **RGB** values to the triplet or quadruple of **CMY** or **CMYK** values, respectively. Algorithms based on artificial neural networks are used for performing the transformation. During the experimental investigations, we have found a good correlation between...

...Descriptors: **image** colour analysis...

... **image** registration

...Identifiers: **graphic arts**...

...printed half-tone multicoloured **pictures** ; ...

... **CMYK** vector...

...**RGB image** ;

23/3,K/3 (Item 1 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00506358 Pira Acc. Num.: 20107767

**Title: A new method for ink feed control in multicoloured newspaper printing**

Authors: Verikas A; Malmqvist K; Bergman L

Source: Proceedings SSAB Symposium on Image Analysis, Uppsala, Sweden, 16-17 Mar. 1998, pp 13-16 [Uppsala, Sweden, Uppsala University, 188pp] (S)

Publication Year: 1998

Document Type: Conference Publication

Language: English

**Abstract:** A method is developed for colour measurements directly on printed halftone multicoloured **pictures**. A concept of colour impression is introduced and used to mean the CMYU or **CMYK** colour vector. The **percentage area** covered by cyan, magenta, yellow and black inks is a

major determinant of vector component values as are ink densities. The RGB image from the measuring area is registered and values are then transformed to the triplet or quadruple of CMY or CMYK values, respectively. The colour vector expresses integrated information concerning tonal values and ink densities. The results give a good correlation between colour vector components and...

Section Headings: Properties and testing - paper and board (1240); Paper and board printing technology (1259); Graphic Reproduction (8230); Newspapers (8660)

?

File 344:Chinese Patents Abs Aug 1985-2004/Mar  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200432  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	697	CMYK OR CYAN()MAGENTA()YELLOW()BLACK
S2	91	(GENERAT? OR CREAT? OR DEVELOP? OR PRODUC? OR WHIP? ?(W)UP OR MANIPULAT?) ()PROOF? ?
S3	1684264	(IMAGE? ? OR PICTURE? ? OR PHOTO? ? OR GRAPHIC? OR PHOTOGR- APH? ? OR JPG OR JPGS OR JPEG OR JPEGs OR MPEG OR MPEGs OR MPG OR MPGS OR GIF OR GIFS)
S4	9354	(CONVERSION OR TRANSLAT?) (2N)TABLE? ?
S5	8	(AREA? ? OR REGION? ?) (2N) (PERCENT? OR PERCENTAGE OR %) (2N- ) (BLACK OR K)
S6	28846	(BLACK OR K) (3N) (0 OR 100)
S7	0	(SAVE OR SAVES OR SAVING OR STORE OR STORING) (5N)S5
S8	230150	(MULTIPLE OR MULTI OR PLURAL? OR MANY OR SEVERAL OR NUMER? OR MANIFOLD OR VARIABLE OR VARIOUS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS)
S9	20	S1 AND PROOF? ?
S10	50	S1 AND S4
S11	0	S1 AND S5
S12	10	S1 AND S6
S13	16	S1 AND S8
S14	0	S1 AND S2
S15	2	S9 AND (S10 OR S12 OR S13)
S16	0	S10 AND (S12 OR S13)
S17	0	S12 AND S13
S18	76	(S9 OR S10 OR S12 OR S13) AND S3
S19	34	S18 AND (BLACK OR K OR (AREA? ? OR REGION? ?) (2N) (PERCENT? OR PERCENTAGE OR %))
S20	34	IDPAT (sorted in duplicate/non-duplicate order)
S21	31	IDPAT (primary/non-duplicate records only)
S22	22	S21 NOT AD=19991021:20020101/PR
S23	21	S22 NOT S15
S24	1	S18 AND IC=B41B
S25	0	S24 NOT (S23 OR S15)

15/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015752915 \*\*Image available\*\*  
WPI Acc No: 2003-815117/200377  
XRPX Acc No: N03-652420

Color conversion definition creating method involves using proofer to  
create tables for converting coordinate points in red, blue, green color  
space to printing area in cyan , magenta yellow , black color space

Patent Assignee: FUJI PHOTO FILM CO LTD (FUJF )

Inventor: TAMAGAWA K; TSUJI T

Number of Countries: 033 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1351487	A2	20031008	EP 20037622	A	20030402	200377 B
US 20030189716	A1	20031009	US 2003406549	A	20030404	200377
JP 2004007373	A	20040108	JP 2002331112	A	20021114	200405
JP 2004102489	A	20040402	JP 2002261174	A	20020906	200424

Priority Applications (No Type Date): JP 2002331112 A 20021114; JP  
2002102903 A 20020404; JP 2002261174 A 20020906

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1351487	A2	E	77	H04N-001/60	
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

US 20030189716	A1			H04N-001/60	
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JP 2004007373	A		54	H04N-001/46	
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JP 2004102489	A		50	G06T-001/00	
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Color conversion definition creating method involves using proofer to  
create tables for converting coordinate points in red, blue, green color  
space to printing area in cyan , magenta yellow , black color space

Abstract (Basic):

... A color conversion definition table (51) for converting the  
coordinate points within reproduction area of a printer (11) in red,  
green, blue (RGB) color space into coordinate points within color  
reproduction area of a proofer (13) is created. Another color  
conversion definition creating table (52) converts the coordinate  
points within the reproduction area of the proofer, corresponding to  
printing area cyan , magenta , yellow , black ( CMYK ) color  
space.

... For creating color conversion definition table .

...Enable creating conversion definition defining three dimensional to four  
dimension conversion such as from RGB data to CMYK data, efficiently

... proof image (13a...

...color conversion definition tables (51,52

...Title Terms: PROOF ;

15/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015381710

WPI Acc No: 2003-442651/200342

XRFX Acc No: N03-353321

**Dynamically generated color-profile-dependent print check block has two black-dominated segments, and cyan, yellow and magenta segments**

Patent Assignee: NELISSEN C (NELI-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 20214282	U1	20030327	DE 2002U2014282	U	20020914	200342 B

Priority Applications (No Type Date): DE 2002U2009982 U 20020627

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 20214282	U1		4	G03F-003/10	

Abstract (Basic):

... The block contains two different **CMYK** color separations, which have different **black** structure ( 0 % **black** component or maximum black component). Two further block segments consist exclusively of cyan, yellow and magenta. A gray wedge may consist of other colorcasts than...

... Produced individually for each color profile or **proof** process. Can indicate to a layman if specifications have been met...

?

23/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

06738663 \*\*Image available\*\*  
COLOR IMAGE PRINTER

PUB. NO.: 2000-324512 [JP 2000324512 A]  
PUBLISHED: November 24, 2000 (20001124)  
INVENTOR(s): SAKAI NOBUHIKO  
APPLICANT(s): SONY CORP  
APPL. NO.: 2000-113251 [JP 2000113251]  
Division of 03-358747 [JP 91358747]  
FILED: December 28, 1991 (19911228)

COLOR IMAGE PRINTER

#### ABSTRACT

PROBLEM TO BE SOLVED: To print an **image** by converting primary-color RGB signals obtained by picking up an **image** by a color **image** pickup device into **CMYK** (cyan, magenta, yellow, and **black**) data for optimum printing.

SOLUTION: The video signal (primary-color RGB) generated by an **image** pickup part 13 of an electronic still camera is converted by an A/D converter 14 into primary-color RGB data, which are supplied to an RGB correcting process part 16 for printing and a **conversion** look-up table 17 respectively. The **conversion** look-up table 17 contains as color correction data the differences between primary-color RGB data obtained by picking up an **image** of a test chart for printing and RGB data obtained from **CMYK** data, obtained by reading the test chart for printing by a scanner 11 for printing, through the inverse complementary color conversion of an inverse complementary...

...color RGB data for printing according to the primary-color RGB data from the A/D converter 14 and the color correction data from the **conversion** look-up table 17 and sends them to a complementary color converting circuit 18, which converts the data into **CMYK** data for printing, so that the printer 20 prints the data.

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23/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05834194 \*\*Image available\*\*  
COLOR CONVERSION METHOD

PUB. NO.: 10-117294 [JP 10117294 A]  
PUBLISHED: May 06, 1998 (19980506)  
INVENTOR(s): OKUBO AKIHITO  
APPLICANT(s): FUJI PHOTO FILM CO LTD [000520] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 08-267544 [JP 96267544]  
FILED: October 08, 1996 (19961008)

#### ABSTRACT

...that converts data of a 1st color representation system into a 2nd color



representation system, without causing an unnatural color or large fluctuations in an image generated, based on the data after conversion in the vicinity of a color reproduction area border...

...SOLUTION: A 2nd inverse conversion table section 28 obtains a 2nd inverse conversion relation, that is a relation of color data CMYK with respect to stimulus data XYZ in a color reproduction area. A 3rd inverse conversion table generating section 30 sets color data K which is a component of color data CMYK of a border of a color reproduction area to color data at the outside of a color reproduction area, estimates the color data CMY at...

...area by using the color data CMY at the border of the color reproduction area with the multiple regression analysis to generate a 3rd inverse conversion table. After the stimulus data XYZ have been converted into the color data CMYK by using the 3rd inverse conversion table, and mapping processing is applied to the color data CMYK within the color reproduction area.

23/3,K/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05717716 \*\*Image available\*\*  
METHOD FOR COLOR CONVERSION

PUB. NO.: 10-000816 [JP 10000816 A]  
PUBLISHED: January 06, 1998 (19980106)  
INVENTOR(s): OKUBO AKIHITO  
APPLICANT(s): FUJI PHOTO FILM CO LTD [000520] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 08-154584 [JP 96154584]  
FILED: June 14, 1996 (19960614)

...JAPIO CLASS: Photography & Cinematography; 45.9 (INFORMATION PROCESSING

#### ABSTRACT

...SOLUTION: A conversion table for converting color data CMYK (color data having four variable colors) into stimulus value data XYZ (known color data CMY of color patches are converted into stimulus value data having X, Y, Z depending upon no image forming apparatus) is formed thereafter by a conversion table generator 24 by subjecting to a colorimetry of a color chart based on the data CMYK by a colorimeter 20, and then obtaining the data XYZ by a stimulus value data calculator 22. Then, a first inversion table for inverting the data XYZ into color reproducible color data CMYKsol by using the conversion table by a first inversion table generator 26 while sequentially reducing color data K from a maximum value Kmax. Thereafter, arbitrary color data K made of smaller value than the data Ksol is set, and a second inversion table for inverting the data XYZ into color reproducible color data CMYK is obtained by a second inversion table generator 28 while increasing the value.

23/3,K/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05697981

UNDER COLOR ELIMINATION PARAMETER TABLE, GRAY COLOR ELIMINATION PARAMETER  
TABLE AND GENERATING METHOD FOR COLOR CONVERSION TABLE

PUB. NO.: 09-312781 [JP 9312781 A]  
PUBLISHED: December 02, 1997 (19971202)  
INVENTOR(s): ENDO HIROYUKI  
KOIZUMI TAEKO  
KITAMI AKIKO  
KADOWAKI KAZUTO  
KONO MICHIKO  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 08-129739 [JP 96129739]  
FILED: May 24, 1996 (19960524)

UNDER COLOR ELIMINATION PARAMETER TABLE, GRAY COLOR ELIMINATION PARAMETER  
TABLE AND GENERATING METHOD FOR COLOR CONVERSION TABLE

...JAPIO CLASS: **Photography** & Cinematography); 45.3 (INFORMATION  
PROCESSING

ABSTRACT

PROBLEM TO BE SOLVED: To generate a UCR parameter table representing a  
value **K** with respect to a combination of CMY suitable for a given print  
condition...

...SOLUTION: A printed matter in **CMYK** ( **cyan** , **magenta** , **yellow** , **black**  
) and their mixed color are generated, a color measurement device measures  
a color of the printed matter, the result of color measurement and the Neu  
...

... used to generate a density reproduction characteristic graph and the  
generated density reproduction characteristic graph is referenced to  
generate a UCR parameter table representing the **K** with respect to the  
combination of the CMY in the case of conducting predetermined UCR(under  
color reduction).

23/3,K/5 (Item 5 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05572094 \*\*Image available\*\*  
COLOR **IMAGE** PROCESSING METHOD AND DEVICE

PUB. NO.: 09-186894 [JP 9186894 A]  
PUBLISHED: July 15, 1997 (19970715)  
INVENTOR(s): MURAI KAZUMASA  
KOKATSU HITOSHI  
APPLICANT(s): FUJI XEROX CO LTD [359761] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 07-342886 [JP 95342886]  
FILED: December 28, 1995 (19951228)

COLOR **IMAGE** PROCESSING METHOD AND DEVICE

ABSTRACT

PROBLEM TO BE SOLVED: To maintain the **black** rate of an original **image**  
in the case of converting a color signal between different coordinates...

...SOLUTION: An equipment independent color signal on a representation  
color system coordinate is calculated from a color signal CiMiYiKi on 1st

**CMYK** coordinates (S50). Then a maximum **black** amount of the color signal CiMiYiKi is calculated based on the color signal CiMiYiKi and the equipment independent color signal and a **black** rate (g) of the color signal CiMiYiKi is calculated based on the maximum **black** amount and a color signals **K** (sub 1) (S54). The maximum **black** amount taken in a range of not revising the equipment independent color signal is calculated from the equipment independent color signal (S56). A color signal **K** (sub 0) on 2nd **CMYK** coordinates is decided based on the maximum **black** amount and the **black** rate and a chrominance signal C(sub 0)M(sub 0)Y(sub 0) on the **CMYK** coordinate is decided based on the equipment independent color signal and the color signal **K** (sub 0).

23/3,K/6 (Item 6 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04996106 \*\*Image available\*\*  
COLOR CONVERSION METHOD, COLOR CONVERTER AND COLOR CONVERSION TABLE  
PREPARATION DEVICE

PUB. NO.: 07-288706 [JP 7288706 A]  
PUBLISHED: October 31, 1995 (19951031)  
INVENTOR(s): TSUKADA MASATO  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-079088 [JP 9479088]  
FILED: April 19, 1994 (19940419)

COLOR CONVERSION METHOD, COLOR CONVERTER AND COLOR CONVERSION TABLE  
PREPARATION DEVICE

#### ABSTRACT

PURPOSE: To perform RGB -> **CMYK** conversion for respecting the actual measurement data of the color reproduction area of a color picture display device and a recorder without using a color reproduction model...

... representative chrominance signals 100 of the color reproduction area table 20 of a color display device. The color reproduction area conversion means 2 for respective **K** ink amounts divides the color reproduction area table 21 by the respective **K** ink amounts, an entire corresponding color decision means 7 obtains entire **CMYK** ink amounts 105 corresponding to the conversion chrominance signals 101 and an optimum color reproduction area conversion selection means 5 selects a parameter for minimizing the color difference total sum of the source representative chrominance signals 100 and the entire **CMYK** ink amounts 105 and stores the entire **CMYK** ink amounts in an entire corresponding ink amount storage memory 41. A candidate selection means 8 leads out **CMYK** ink amount candidates 106 for input chrominance signals 103 corresponding to a **K** ink amount adjustment coefficient 107 and when the **CMYK** ink amount candidates 106 are plural, calculation by an interpolation calculation means 9 is performed and output is performed.

23/3,K/7 (Item 7 from file: 347)  
DIALOG(R) File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

04386372 \*\*Image available\*\*  
DEVICE AND METHOD FOR PROCESSING IMAGE

PUB. NO.: 06-030272 [JP 6030272 A]  
PUBLISHED: February 04, 1994 (19940204)  
INVENTOR(s): MIKAMI FUMIO  
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 05-076704 [JP 9376704]  
FILED: April 02, 1993 (19930402)  
JOURNAL: Section: E, Section No. 1546, Vol. 18, No. 246, Pg. 45, May  
11, 1994 (19940511)

DEVICE AND METHOD FOR PROCESSING **IMAGE**

ABSTRACT

PURPOSE: To make the various kinds of gradation processing possible by converting the number of the gradations of inputted **image** data, binarizing that number later and instructing the number of gradations...

...CONSTITUTION: For the **image** signal of an original from a sensor 1, shading correction is performed through an AMP 2 and an A/D converter 3 by a shading correction circuit 4, and the RGB position deviation of the sensor 1 is corrected by a color slurring correction circuit 5. Next, a **black** character area is detected from **image** data by a **black** character detection circuit 6, a **black** character signal is outputted, and the **image** is enlarged or reduced by a power varying circuit 7. Then, corresponding to a control signal from a control signal generation circuit 9, a logarithm conversion circuit 10 converts an RGB space into a CMY space based on a **conversion table** from a CPU 21. A minimum value extraction circuit 11 extracts the minimum value of CMY **image** data, a masking UCR circuit 12 performs masking and UCR processing and outputs **CMYK image** data, and a spatial filter obtains smoothing data. A gamma conversion circuit 15 converts the **image** data into designated density by performing .gamma.conversion, and a binarizing circuit 16 outputs binarized **image** data.

23/3,K/8 (Item 8 from file: 347)  
DIALOG(R) File 347:JAPIO  
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03425678 \*\*Image available\*\*  
METHOD AND DEVICE FOR **IMAGE** PROCESSING

PUB. NO.: 03-088578 [JP 3088578 A]  
PUBLISHED: April 12, 1991 (19910412)  
INVENTOR(s): TAKAOKA MAKOTO  
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 01-225386 [JP 89225386]  
FILED: August 31, 1989 (19890831)  
JOURNAL: Section: E, Section No. 1086, Vol. 15, No. 265, Pg. 153, July  
05, 1991 (19910705)

METHOD AND DEVICE FOR **IMAGE** PROCESSING

ABSTRACT

PURPOSE: To satisfactorily convert (n) value color **image** data to (m) value color data (m>n) by controlling a window in accordance with a specific color component detected from color **image** data...

...CONSTITUTION: Only K data in YMCK binarized data is taken notice of, and when the K data is '1', that of a small opening is selected, and with respect to CMYK, respectively in the same picture element, for instance, by the opening of 3X3 containing the periphery, '1' in the picture element is counted and a '1'/'0' ratio is derived. To its ratio, a correction is applied in order to obtain the same range data as other opening. When the K data is '0', that of a large opening is selected, with respect to CMYK, respectively in the same picture element, for instance, by the opening of 7X7 containing the periphery, '1' in two picture elements is counted, and a '1'/'0' ratio is derived. To its ratio, a correction is applied in the same way as the foregoing. In such a way, binary image data is estimated. In such a way, the resolution of black contained often in a contour component of the image is improved,

and also, in a flat part, the generation of uneven color is prevented and the gradation property is improved.

23/3,K/9 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

015968558 \*\*Image available\*\*  
 WPI Acc No: 2004-126399/200413  
 XRPX Acc No: N04-101140

Full color display device has belt-like endless display sheets that are folded and adhered with color image forming particles using inkjet recording

Patent Assignee: CANON KK (CANO )  
 Number of Countries: 001 Number of Patents: 001  
 Patent Family:  

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004004218	A	20040108	JP 2002158669	A	20020531	200413 B

Priority Applications (No Type Date): JP 2002158669 A 20020531  
 Patent Details:  

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2004004218	A		14 G09F-011/26	

Full color display device has belt-like endless display sheets that are folded and adhered with color image forming particles using inkjet recording

Abstract (Basic):

... The display device has several belt-like endless display sheets that are folded and arranged. Several color image forming particles such as cyan, magenta, yellow and black (CMYK) are adhered on the front and/or back surfaces of the sheet using inkjet recording.  
 ... Performs variegated color image display using a simple structure. Also enables simplified erasure of the display information, thus improving recycling property and economical efficiency...  
 ...Title Terms: IMAGE ;

23/3,K/10 (Item 2 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

015940353 \*\*Image available\*\*  
 WPI Acc No: 2004-098194/200410

XRPX Acc No: N04-078284

Image forming apparatus e.g. printer has firmware unit that converts color space format of compressed image data, and hardware unit that performs expansion and binarization of converted image data

Patent Assignee: FUJII XEROX CO LTD (XERF )

Inventor: NISHIMURA T

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040001207	A1	20040101	US 2003345321	A	20030116	200410 B
JP 2004034370	A	20040205	JP 2002191475	A	20020628	200411

Priority Applications (No Type Date): JP 2002191475 A 20020628

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20040001207	A1	10	G06F-003/12	
JP 2004034370	A	11	B41J-005/30	

Image forming apparatus e.g. printer has firmware unit that converts color space format of compressed image data, and hardware unit that performs expansion and binarization of converted image data

Abstract (Basic):

... A firmware unit (20) converts the input multi-valued compressed image data of variable length red blue green (RGB) color space data format to compressed image data of cyan yellow magenta black ( CMYK ) data format. A hardware unit (30) performs expansion and binarization on the converted image data and outputs the processed image data to a printer engine (40).

... 1) image forming method; and...

...2) image forming system...

... Image forming device e.g. printer such as laser printer, inkjet printer, color facsimile and color multi -functional apparatus connected to host computer through networks e.g. cable network, or wireless network such as local area network (LAN), of image forming system (claimed...

...Color space conversion and expansion are efficiently performed at a high speed and with a small memory work capacity, even if the image data compression rate is high...

...The figure shows a block diagram of the image forming system

Title Terms: IMAGE ;

23/3,K/11 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015937088 \*\*Image available\*\*

WPI Acc No: 2004-094929/200410

XRPX Acc No: N04-076010

Image processor for copier, performs rotation processing of each color component of binary data obtained from multi-value data using color conversion table

Patent Assignee: MURATA KIKAI KK (MURK )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004015262	A	20040115	JP 2002163749	A	20020605	200410 B

Priority Applications (No Type Date): JP 2002163749 A 20020605

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2004015262	A		6 H04N-001/387	

Image processor for copier, performs rotation processing of each color component of binary data obtained from multi-value data using color conversion table

Abstract (Basic):

... A conversion table (5) converts the multi-value data of red, blue, green (RGB) system to the binary data of cyan, magenta, yellow, black (CMYK) system. A page memory (8) stores the binary data and a memory management circuit (7) performs rotation processing of each color component of the binary...

... Image processor for color copier, facsimile and composite machine...

...Reduces the memory capacity, by performing the rotation processing for each color component of binary image.

... conversion table (5)

Title Terms: IMAGE ;

23/3,K/12 (Item 4 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

015823154 \*\*Image available\*\*  
 WPI Acc No: 2003-885357/200382  
 XRPX Acc No: N03-706785

Color conversion apparatus converts data containing red, green and blue color to data containing cyanogen, magenta, yellow and black color, based on difference of calorimetry results

Patent Assignee: SEIKO EPSON CORP (SHIH )  
 Number of Countries: 001 Number of Patents: 001  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003283850	A	20031003	JP 200277766	A	20020320	200382 B

Priority Applications (No Type Date): JP 200277766 A 20020320

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003283850	A		21 H04N-001/60	

Color conversion apparatus converts data containing red, green and blue color to data containing cyanogen, magenta, yellow and black color, based on difference of calorimetry results

Abstract (Basic):

... The calorimetry results comprising brightness and color phase of each component value in predetermined color space, is obtained by the calorimetry of several standard images under their respective light sources (L11 and L12). Based on the difference of the calorimetry results, the data containing red, green and blue colors are converted into data containing cyanogen, magenta, yellow and black color.

... 4) color conversion table production method...

...5) color conversion table production apparatus...

...6) color conversion table preparation program...

...7) medium which recorded color conversion table preparation program  
...

...8) color conversion table ; and...

...9) medium which recorded data of color conversion table .  
...

...Color conversion apparatus for converting RGB data into CMYK data  
using color conversion table stored in desktop computer connected  
to printer...

...Even if light source changes, the color converted image is made  
clearly visible, and thereby improving the image quality...

...The figure shows the conceptual diagram which shows operation at the  
time of printing an image . (Drawing includes non-English language  
text  
...Title Terms: BLACK ;

23/3,K/13 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013617919 \*\*Image available\*\*  
WPI Acc No: 2001-102127/200111  
XRPX Acc No: N01-075866

Color reproduction in printer using destination device in computer  
system, involves acquiring desired mapping between source and destination  
devices, when existence of desired mapping between both devices is judged  
Patent Assignee: KODAK POLYCHROME GRAPHICS LLC (EAST ); IMATION CORP (IMAT  
)

Inventor: EDGE C J; FISCHER T A; ROZZI W A  
Number of Countries: 020 Number of Patents: 005  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200052925	A1	20000908	WO 99US21786	A	19990923	200111	B
EP 1155567	A1	20011121	EP 99949759	A	19990923	200176	
			WO 99US21786	A	19990923		
JP 2002538734	W	20021112	WO 99US21786	A	19990923	200275	
			JP 2000603237	A	19990923		
EP 1155567	B1	20030205	EP 99949759	A	19990923	200318	
			WO 99US21786	A	19990923		
DE 69905294	E	20030313	DE 605294	A	19990923	200326	
			EP 99949759	A	19990923		
			WO 99US21786	A	19990923		

Priority Applications (No Type Date): US 99259863 A 19990301

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200052925 A1 E 49 H04N-001/60

Designated States (National): JP

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE



EP 1155567 A1 E H04N-001/60 Based on patent WO 200052925  
 Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI  
 LU MC NL PT SE  
 JP 2002538734 W 49 H04N-001/60 Based on patent WO 200052925  
 EP 1155567 B1 E H04N-001/60 Based on patent WO 200052925  
 Designated States (Regional): DE FR GB IT  
 DE 69905294 E H04N-001/60 Based on patent EP 1155567  
 Based on patent WO 200052925

Abstract (Basic):

... Color **images** can be reproduced from one **CMYK** device to another **CMYK** device efficiently, while maintaining the integrity of the color information as indicated by device independent profile connecting space data, including the **k** information from the source. Effective gamut mapping can be achieved. Accuracy between forward and reverse transformation of a given profile can be achieved regardless of profile format or vendor. Spectral model profiles of devices can be used, which provide benefits for **image** archival because the core color information is retained. Several conversions of the same **image** to and from a device can be performed without significant degradation in **image** appearance. Color reproduction can be dynamically configured with respect to illuminant, observant, color space, gamut mapping, etc., Different methods of gray component replacement (GCR) can...

...obtaining new device profiles. Users can customize color reproduction by selecting different options for portions of color reproduction process e.g. by selecting options using **various apparatus** or by connecting a plug-in having desired features. Enables providing gamut mapping, GCR, and PCS calculation in plug-and-play modules, reliably...

23/3,K/14 (Item 6 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

012713617 \*\*Image available\*\*  
 WPI Acc No: 1999-519729/199944  
 XRAM Acc No: C99-152015  
 XRPX Acc No: N99-386566

Producing widest palette of richest colors for laser printing and copying  
 Patent Assignee: HEWLETT-PACKARD CO (HEWP )  
 Inventor: JACOB S A; JOHNSON D A  
 Number of Countries: 002 Number of Patents: 003  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19856574	A1	19990909	DE 1056574	A	19981208	199944 B
US 5978011	A	19991102	US 9830637	A	19980225	199953
DE 19856574	C2	20010913	DE 1056574	A	19981208	200152

Priority Applications (No Type Date): US 9830637 A 19980225

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19856574	A1		14	G03G-013/01	
US 5978011	A			G03F-003/08	
DE 19856574	C2			G03G-013/01	

Abstract (Basic):

... repeated printing of sets of colored geometric figures (sets), each successive set differing in color density; each comprising combinations of three primary colors (CMY) and **black (K)**. **CMYK** quantities vary from identical, through incremental differences in each

set; (ii) measuring and deriving color values of each set; (iii) deriving the gray scale vector...

... The darker (shade) colors are maximized by: (i) printing sets, each successive set being of different hue, varying CMY, also varying **K** ; (ii) deriving spectrally measured values for each geometric figure and selecting a first figure displaying maximum color intensity for each hue in the measured spectral values, selecting a second figure displaying a deepest **black** for each hue, and selecting several figures displaying intermediate levels of maximum color intensity and minimum color density; (iii) deriving a shade curve (34) for each hue, comprising several hue values, by interpolation between maximal color intensity, darkest **black** for the hue and intermediate levels of maximum color intensity and minimized density. (C) Deriving the light-color vector (36) for each hue by interpolation between maximum color intensity values and a white color value. (D) Determine combinations of CMY color values and **K** values for points between gray vector (32), shade curve (34) and light color vector (36), to produce a color hue plane for each hue. (E) Finally, produce a **conversion table** mapping input CMY values to output combinations of **CMYK** . **Images** are produced with regard to color values of each input combination and the **CMYK** values of the nearest color tone levels...

...To optimize the palette using practical printing inks or toners, in **CMYK** combinations...

...to 300%) overprinting of CMY colors to simulate dark shades produces unsatisfactory results for a variety of reasons cited in the disclosure. Simple overprinting with **black** is a poor compromise, which can reduce both the palette and color richness in the shade. The conversion for incoming printer data, obtained from the...

...color richness, including in the shade. Toner or ink consumption is optimized, together with thermal bonding. Excessively thick toner layers, leading to poor melting and **images** , are prevented...

...The color domain, cartesian coordinate system indicates the derived white, **black** and maximum color intensity values for a given hue, used in deriving the CMY to **CMYK** color **conversion table** .

23/3,K/15 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012328875 \*\*Image available\*\*  
WPI Acc No: 1999-134982/199912  
XRPX Acc No: N99-133144

**Multiple color space color transformation in color image management**  
Patent Assignee: SCITEX CORP LTD (SCIT-N)  
Inventor: KEYDAR M; MELMAN H Z  
Number of Countries: 026 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 898417	A2	19990224	EP 98306646	A	19980819	199912 B
IL 121579	A	20010614	IL 121579	A	19970819	200154

Priority Applications (No Type Date): IL 121579 A 19970819

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 898417	A2	E	9	H04N-001/60	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI  
IL 121579 A H04N-001/56

**Multiple color space color transformation in color image management**

...Abstract (Basic): A shaded area ( 100 ) comprises K values as a function of cyan, magenta and yellow combinations forming an image and this area is used to define a CMYK ( Cyan , magenta , yellow , black ) laboratory transform such as defined by the ICC standard. The K values between 0 and 100% are illustrated on an axis (108). An area (102) refers to CMYK values not in the image range and transformations are carried out from ink values to vectors and then to a second set of ink values, at least two different ink...

...USE - Color transforming of digital images . Execution of multimode transforms using single color transform table and generating and editing special modes of transformation...

...ADVANTAGE - The drawing shows a schematic drawing generally describing color space of a CMYK digital image .

...

...PARTS LIST - Shaded area (100) Axis (108) Area of values set in image range (102

...Title Terms: IMAGE ;

23/3,K/16 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

011988485 \*\*Image available\*\*  
WPI Acc No: 1998-405395/199835  
Related WPI Acc No: 1998-405373; 1998-405398; 1998-453189; 1998-492155  
XRPX Acc No: N98-316380

Colour conversion method for image output devices e.g. film, print production apparatus, colour printer - involves feeding pigment concentration signal of scanner or camera to standard condition duplication table and subjecting it to several processes for converting into cmyk signal

Patent Assignee: FUJI PHOTO FILM CO LTD (FUJF )

Inventor: TAKEMOTO F

Number of Countries: 002 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10164378	A	19980619	JP 96319769	A	19961129	199835 B
US 6278533	B1	20010821	US 97980367	A	19971128	200150
US 20030053085	A1	20030320	US 97980367	A	19971128	200323
			US 2001852633	A	20010511	
US 6668079	B2	20031223	US 97980367	A	19971128	200408
			US 2001852633	A	20010511	

Priority Applications (No Type Date): JP 96319769 A 19961129; JP 96319736 A 19961129; JP 96319749 A 19961129; JP 96319754 A 19961129; JP 96342050 A 19961220

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10164378	A		19	H04N-001/46	
US 6278533	B1			G03F-003/08	
US 20030053085	A1			B41J-001/00	Div ex application US 97980367

US 6668079      B2      G06K-009/00      Div ex patent US 6278533  
Div ex application US 97980367  
Div ex patent US 6278533

Colour conversion method for image output devices e.g. film, print production apparatus, colour printer...

...involves feeding pigment concentration signal of scanner or camera to standard condition duplication table and subjecting it to several processes for converting into cmyk signal

...Abstract (Basic): 14) output from a digital camera and a scanner, into corresponding colourimetry value signals (18,22) by a colour conversion matrix (20) and a colour conversion table (24), respectively. The two colourimetry value signals are converted into respective cmy pigment concentration signals (28,34) by two pigment concentration transducers (30,36), respectively...

...a standard condition duplication table (44). In the duplication table, the pigment concentration signal is subjected to gradation conversion, colour correction, lower colour removal and k edition generation process for converting into cmyk signal...

...ADVANTAGE - Outputs desired image to specific image reading apparatus. Improves reliability...

...Title Terms: IMAGE ;

23/3,K/17      (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

011899343      \*\*Image available\*\*  
WPI Acc No: 1998-316253/199828  
XRPX Acc No: N98-248026

Image processing method for full-colour and multi-value binary image  
- involves printing image based on data read from output buffer which stores dot pattern converted from input ID data whose number of bits changes with printing modes

Patent Assignee: CANON KK (CANO )  
Number of Countries: 001      Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10114110	A	19980506	JP 96270207	A	19961011	199828 B

Priority Applications (No Type Date): JP 96270207 A 19961011

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10114110	A		14	B41J-002/525	

Image processing method for full-colour and multi-value binary image  
- ...

...involves printing image based on data read from output buffer which stores dot pattern converted from input ID data whose number of bits changes with printing modes

...Abstract (Basic): input buffer (802) using the memory controller (801) of a printer. The stored data are read in synchronous with the timing of the printer. A CMYK data converter (803) uses several pattern tables (804-806) to convert the input m-bit ID data into a dot pattern,

where m is a...

...The output of the **CMYK** data converter, which transforms data based on the bit number of the ID data, is stored in an output buffer (808) because the number of...

...ADVANTAGE - Prints **image** with sufficient colour and gradation property, easily. Uses pattern table with best memory usage efficiency. Ensures optimum printing irrespective of compression rate. Reduces memory load due to utilisation of shared **conversion table**.

Title Terms: **IMAGE** ;

23/3,K/18 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010778319 \*\*Image available\*\*  
WPI Acc No: 1996-275272/199628  
XRPX Acc No: N96-231658

**Image processor for colour copier and printer - has CMY signal conversion part and K signal conversion part to convert specific CiMiYiKi signals to CoMoYoKo signal**

Patent Assignee: FUJI XEROX CO LTD (XERF )

Inventor: KITA S; OGATSU H

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8116456	A	19960507	JP 94277029	A	19941017	199628 B
US 5719956	A	19980217	US 95542259	A	19951012	199814
JP 3249693	B2	20020121	JP 94277029	A	19941017	200207

Priority Applications (No Type Date): JP 94277029 A 19941017

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8116456	A		20	H04N-001/46	
US 5719956	A		27	G03F-003/08	
JP 3249693	B2		20	H04N-001/46	Previous Publ. patent JP 8116456

**Image processor for colour copier and printer...**

...has **CMY** signal conversion part and **K** signal conversion part to convert specific **CiMiYiKi** signals to **CoMoYoKo** signal

...Abstract (Basic): The **image** processor includes a 3D LUT colour converter (12- 14). A **CMY** signal conversion part (11) converts the input **CiMiYi** signal to an output **CoMoYo** signal using the 3D **conversion table** reference type colour converter...

...A **K** signal conversion part (21) converts the input **Ki** signal to an output **Ko** signal. The signal **CMYK** corresponds to cyan, magenta, yellow and **black** colour...

...ADVANTAGE - Enables to convert specific **CMYK** signal to different **CMYK** signal with accuracy...

...Abstract (Equivalent): The **image** processor includes a 3D LUT colour converter (12- 14). A **CMY** signal conversion part (11) converts the input **CiMiYi** signal to an output **CoMoYo** signal using the 3D **conversion table** reference type colour converter...

...A K signal conversion part (21) converts the input Ki signal to an output Ko signal. The signal CMYK corresponds to cyan, magenta, yellow and black colour...

...ADVANTAGE - Enables to convert specific CMYK signal to different CMYK signal with accuracy...

Title Terms: IMAGE ;

23/3,K/19 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010715777 \*\*Image available\*\*

WPI Acc No: 1996-212732/199622

XRFX Acc No: N96-178162

Print image data conversion regime for colour image data conversion system - generates conversion table which shows input image data and relation with amount of CMYK

Patent Assignee: TOPPAN PRINTING CO LTD (TOPP )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8076363	A	19960322	JP 94232275	A	19940831	199622 B

Priority Applications (No Type Date): JP 94232275 A 19940831

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 8076363 A 10 G03F-003/00

Print image data conversion regime for colour image data conversion system...

...generates conversion table which shows input image data and relation with amount of CMYK

...Abstract (Basic): The print image data conversion regime includes a conversion table generator (20). The already known combination of the amount of CMYK and the relationship with each value of K is generated by conversion table generator. The value of K is decided from grey component of colour value computed from input image data...

...Based on the obtained value of K , the quantity of CMY which satisfies a colour value is obtained. The input image data of each picture element is read in image data transducer (30). Based on this data, the conversion table is retrieved...

...ADVANTAGE - Improves image data conversion accuracy. Eliminates manual adjustment. Improves computation speed...

...Title Terms: IMAGE ;

23/3,K/20 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010255365 \*\*Image available\*\*

WPI Acc No: 1995-156620/199521

XRFX Acc No: N95-123379

**Ink feed control for offset printing machine - by calculating effective surface cover value for each colour ink using measured remission values and IR ink density for black ink**

Patent Assignee: MAN ROLAND DRUCKMASCH AG (MAUG )

Inventor: SIX H; SIX H J

Number of Countries: 010 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 649743	A1	19950426	EP 94115333	A	19940929	199521 B
DE 4431270	A1	19950427	DE 4431270	A	19940902	199522
JP 7195675	A	19950801	JP 94257169	A	19941021	199539
US 5530656	A	19960625	US 94327377	A	19941021	199631
DE 4431270	C2	19970116	DE 4431270	A	19940902	199707
EP 649743	B1	19970409	EP 94115333	A	19940929	199719
DE 59402360	G	19970515	DE 502360	A	19940929	199725
			EP 94115333	A	19940929	

Priority Applications (No Type Date): DE 4431270 A 19940902; DE 4335853 A 19931021

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 649743	A1	G	9	B41F-033/00	
Designated States (Regional): AT CH DE FR GB IT LI SE					
DE 4431270	A1		8	B41F-033/10	
JP 7195675	A		7	B41F-031/02	
US 5530656	A		9	G01J-003/00	
DE 4431270	C2		8	B41F-033/10	
EP 649743	B1	G	9	B41F-033/00	
Designated States (Regional): AT CH DE FR GB IT LI SE					
DE 59402360	G			B41F-033/00	Based on patent EP 649743

... by calculating effective surface cover value for each colour ink using measured remission values and IR ink density for black ink

...Abstract (Basic): and the printed product, to determine the surface cover values for the printing inks. The remission in the near IR range is measured for the **black** ink, to determine the IR ink density, with the corresponding surface cover value obtained via an empirical relationship...

...Abstract (Equivalent): for controlling the ink feed of a half tone working printing press, particularly an offset printing press in which in selected test regions of the **image** of a **proof** as well as corresponding test regions of the printed prod. reflectance values are photoelectrically sensed from which surface covering values for the printed inks are determined for which for the printing ink **black** the reflectance is sensed in the near infra-red and the control commands for the ink feeding elements of the printing press are determined by a comparison of the corresponding surface covering values of master and printed prod. characterised in that for the printing ink **black** the infra-red colour density DIR is determined from which via an empirically determined relationship the optically effective colour surface value  $EFF(K)$  for the printing ink **black** is determined, that the reflectance from the test regions are calculated to standard colour values  $X(CMYK)$ ,  $Y(CMYK)$ ,  $Z(CMYK)$ , of the four colour superimposed print by a linear transformation the following standard colour values are calculated:  $X(CMY) = ax(1) - X(CMYK) + ax(2)$ ;  $Y(CMY) = ay(1) - Y(CMYK) + ay(2)$  and  $Z(VMY) = az(1) - Z(CMYK) + az(2)$ , wherein these standard colour values  $X(CMY)$ ,  $Y(CMY)$ ,  $Z(VMY)$  correspond to a colour locus which arises by the combined printing of...

...Abstract (Equivalent): selecting test regions on an original and

corresponding test regions on a printed product printed in printing inks of three chromatic colours and the colour **black** ;

...

...detecting photoelectrically reflectance values of the selected test regions, wherein for the **black** printing ink the reflectance is detected in the near infrared spectral range...

...determining the infrared colour density for the **black** printing ink from the reflectance in the near infrared spectral range...

...of only the three chromatic colour, the coefficients of the linear transformation being determined empirically as a function of the infrared colour density of the **black** ink...

...determining the optically effective surface coverage value of the **black** ink from the infrared colour density via an empirically determined relationship

...Title Terms: **BLACK** ;

23/3,K/21 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009041525 \*\*Image available\*\*

WPI Acc No: 1992-168884/199221

XRPX Acc No: N92-127287

Colour image conversion appts. for additive to subtractive processes - converts input signals and tests if signals fall within designated colour reproduction range of output device

Patent Assignee: CANON KK (CANO )

Inventor: HORIE Y; KAWAI T; OHTA E; OHTA K; SHONO S; USAMI A

Number of Countries: 006 Number of Patents: 017

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 486311	A2	19920520	EP 91310538	A	19911114	199221 B
JP 4180345	A	19920626	JP 90307248	A	19901115	199232
JP 4180346	A	19920626	JP 90307249	A	19901115	199232
JP 4180347	A	19920626	JP 90307250	A	19901115	199232
JP 4181870	A	19920629	JP 90308491	A	19901116	199232
JP 4181871	A	19920629	JP 90308492	A	19901116	199232
JP 4181872	A	19920629	JP 90308493	A	19901116	199232
JP 4217167	A	19920807	JP 90403313	A	19901218	199238
EP 486311	A3	19930414	EP 91310538	A	19911114	199351
US 5594558	A	19970114	US 91792154	A	19911114	199709
			US 95460090	A	19950602	
US 5844699	A	19981201	US 91792154	A	19911114	199904
			US 95460090	A	19950602	
			US 95471881	A	19950607	
JP 3020596	B2	20000315	JP 90308492	A	19901116	200018
JP 3110747	B2	20001120	JP 90307248	A	19901115	200101
JP 3117989	B2	20001218	JP 90308491	A	19901116	200102
JP 3190050	B2	20010716	JP 90403313	A	19901218	200142
EP 486311	B1	20011010	EP 91310538	A	19911114	200167
DE 69132760	E	20011115	DE 632760	A	19911114	200176
			EP 91310538	A	19911114	

Priority Applications (No Type Date): JP 90403313 A 19901218; JP 90307248 A 19901115; JP 90307249 A 19901115; JP 90307250 A 19901115; JP 90308491 A



19901116; JP 90308492 A 19901116; JP 90308493 A 19901116

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 486311	A2	E	26	H04N-001/46	
Designated States (Regional): DE FR GB IT					
JP 4180345	A		5	H04N-001/40	
JP 4180346	A		9	H04N-001/40	
JP 4180347	A		6	H04N-001/40	
JP 4181870	A		6	H04N-001/40	
JP 4181871	A		5	H04N-001/40	
JP 4181872	A		7	H04N-001/40	
JP 4217167	A		7	H04N-001/40	
EP 486311	A3			H04N-001/46	
US 5594558	A		39	G03B-003/08	Cont of application US 91792154
US 5844699	A			H04N-001/46	Cont of application US 91792154
					Div ex application US 95460090
JP 3020596	B2		5	H04N-001/60	Previous Publ. patent JP 4181871
JP 3110747	B2		6	H04N-001/60	Previous Publ. patent JP 4180345
JP 3117989	B2		6	H04N-001/60	Previous Publ. patent JP 4181870
JP 3190050	B2		7	H04N-001/60	Previous Publ. patent JP 4217167
EP 486311	B1	E		H04N-001/46	
Designated States (Regional): DE FR GB IT					
DE 69132760	E			H04N-001/46	Based on patent EP 486311

**Colour image conversion appts. for additive to subtractive processes...**

...Abstract (Basic): The input appts. such as a CCD camera, (101) reads input **image** signals and passes them to an **image** processor (102). In the **image** processor the red, green, blue (RGB) colour **image** signals are gamma converted (111-114) and passed to a colour **conversion** look-up table (116) for **conversion** into **cyan**, **magenta**, **yellow**, **black** ( **CMYK** ) signals. They are then passed to an output selection circuit (117...

...The colour look-up table tests that an input colour **image** falls within a colour reproduction region of an output device (103) and changes the colour conversion processing by selecting the gamma table corresponding to the...

...Abstract (Equivalent): A color **image** processing apparatus comprising

...at least two conversion means for respectively converting input color **image** signals into output color **image** signals, each of the conversion means having a different converting characteristic...

...count means for checking if the color **image** signals converted by said conversion means fall within a reproduction range of an output apparatus, and counting the number of pixels falling outside the reproduction...

...selection means for selecting the converted color **image** signals from a one of said at least two conversion means corresponding to the smallest count value of said count means...

...Title Terms: **IMAGE** ;

?

File 344:Chinese Patents Abs Aug 1985-2004/Mar  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)  
(c) 2004 JPO & JAPIO  
File 348:EUROPEAN PATENTS 1978-2004/May W03  
(c) 2004 European Patent Office  
File 349:PCT FULLTEXT 1979-2002/UB=20040520,UT=20040513  
(c) 2004 WIPO/Univentio  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200432  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	14699	AU=(KONDO, H? OR KONDO H?) OR CO=FUJI
S2	40	S1 AND (CMYK OR CYAN()MAGENTA()YELLOW()BLACK)
S3	12	S2(S) PROOF?
S4	12	IDPAT (sorted in duplicate/non-duplicate order)
S5	9	IDPAT (primary/non-duplicate records only)
S6	2	S2(S) ((AREA OR REGION) (2N) (PERCENT? OR PERCENTAGE OR %))
S7	10	S5 OR S6

7/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06892083 \*\*Image available\*\*  
COLOR CONVERSION METHOD, COLOR CONVERTER AND COLOR CONVERSION PROGRAM  
STORAGE MEDIUM

PUB. NO.: 2001-119592 [JP 2001119592 A]  
PUBLISHED: April 27, 2001 (20010427)  
INVENTOR(s): KONDO HIROKAZU  
APPLICANT(s): FUJI PHOTO FILM CO LTD  
APPL. NO.: 11-295397 [JP 99295397]  
FILED: October 18, 1999 (19991018)

#### ABSTRACT

PROBLEM TO BE SOLVED: To attain high-speed color conversion for the acquisition of a proof image by using a printer.

SOLUTION: A printer using CMYK color materials is adopted and linear color conversion is conducted to reproduce a print dot gain characteristic on a printout independently of each of the CMYK.

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7/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06617285 \*\*Image available\*\*  
METHOD FOR CORRECTING PRINTING PROFILE

PUB. NO.: 2000-203094 [JP 2000203094 A]  
PUBLISHED: July 25, 2000 (20000725)  
INVENTOR(s): KONDO HIROKAZU  
APPLICANT(s): FUJI PHOTO FILM CO LTD  
APPL. NO.: 11-004634 [JP 994634]  
FILED: January 11, 1999 (19990111)

#### ABSTRACT

PROBLEM TO BE SOLVED: To correct a printing profile for converting CMYK image data to XYZ colorimetric value data so as to make a color of a target point on a target printed matter agree with a color of a target point on a proof formed by a printer.

SOLUTION: A color at a target point 59 on a proof HC(Pf) output from a printer 16 in response to a desired input data value with use of a printing profile is measured. Moreover, a...

... printing profile is thus corrected. In the method, the color of the target point 59 obtained corresponding to the desired input data value on the proof HC(Pf) obtained with use of the printing profile after corrected agrees with the colorimetric value of the target point 59 on the color printed...

7/3,K/3 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS

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01640430

Method, apparatus and program storage medium for color conversion  
Verfahren, Vorrichtung und Programmspeichermedium zur Farbumsetzung  
Procede, appareil et support de stockage de programmes pour la conversion  
de couleur

PATENT ASSIGNEE:

Fuji Photo Film Co. Ltd., (3218112), 210 Nakanuma, Minami-Ashigara-shi,  
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INVENTOR:

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Tamagawa, Kiyomi, c/o Fuji Photo Film Co., Ltd., 798, Miyanodai,  
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1351487 A2 031008 (Basic)

APPLICATION (CC, No, Date): EP 2003007622 030402;

PRIORITY (CC, No, Date): JP 2002102903 020404; JP 2002261174 020906; JP  
2002331112 021114

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 149

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200341	2405
SPEC A	(English)	200341	30036
Total word count - document A			32441
Total word count - document B			0
Total word count - documents A + B			32441

...SPECIFICATION first color conversion definition for converting RGB data (RGB data suitable for the printer 11) at the input side into RGB data suitable for a proof outputting printer (a proofer) 13, and a second color conversion definition for converting the RGB data subjected to the conversion using the first color conversion definition into CMYK data for printing, which are created beforehand. The color conversion apparatus 10 performs a color conversion based on the first color conversion definition (this color...

...conversion definition (this color conversion is referred to as a color matching), so that the RGB data at the input side is converted into the CMYK data for printing. Incidentally, here, for the sake of convenience of an explanation, the color conversion based on the first color conversion definition (the gamut...

...color conversion definition (the color matching) are separately explained. However, according to the actual conversion of the RGB data at the input side into the CMYK data for printing, the first color conversion definition is combined with the second color conversion definition to create one color conversion definition, and the RGB data at the input side is converted into the CMYK data for printing in

accordance with the combined one color conversion definition.

The CMYK data thus created is fed to a printing system 12. The...B)) of creating a second color conversion definition for converting the coordinate points within the color reproduction area of the second device (for example, the **proofer** 13) in the second RGB color space into coordinate points within a color reproduction area of printing in a **CMYK** color space.

Details of the first color conversion definition creating step (the step (A)) and the second color conversion definition creating step (the step (B)...

...program 40 creates a second color conversion definition for converting the coordinate points within the color reproduction area of the second device (for example, the **proofer** 13) in the second RGB color space into coordinate points within a color reproduction area of printing in a **CMYK** color space.

Detailed explanation for the first color conversion definition creating section 41 and the second color conversion definition creating section 42 constituting the color...52 of creating a second color conversion definition for converting the coordinate points within the color reproduction area of the second device (for example, the **proofer** 13) in the second RGB color space into coordinate points within a color reproduction area of printing in a **CMYK** color space.

Hereinafter, there will be described details of the first color conversion definition creating step (the step (A)) of the color conversion definition creating...RGB data representative of coordinate points in the first RGB color space) for the printer 11 representative of the actual image is converted into the **CMYK** data for printing, in the color conversion apparatus 10. The **CMYK** data, which is created in accordance with the color conversion definition, is coincident with RGB data for the **proofer** 13 on a colorimetric basis, and also be suitable for printing in the printing system 12. Where the RGB data for the **proofer** 13 is not always completely coincident with the RGB data for the printer 11 on a colorimetric basis, but is in a preferable relation with ...determined throughout the whole color space the second color conversion definition for converting RGB data (coordinate points in the second RGB color space) for a **proofer** into Cout)), Mout)), Yout)) and Kout)) data (coordinate points in the **CMYK** color space) for printing having the printability for the printing system of interest and matched on a colorimetric basis.

Fig. 44 is a conceptual view...

...and Cout)) Mout)) Yout)) and Kout)) data for printing.

A second color conversion definition 341 is determined in form of LUT.

RGB data for a **proofer** are converted into **CMYK** data for printing matched with RGB data on a colorimetric basis and having the printability, through a conversion of primary colors RGB from XYZ by... shown in Fig 43 from Cb))Mb))Yb)) into Cout)), Mout)), Yout)) and Kout)) data.

Fig. 44 shows a process of converting RGB data for **proofer** into **CMYK** data for printing in form of the color conversion definition 341 in united body.

Fig. 45 is a conceptual view showing a color conversion definition...

Color conversion definition creating method, apparatus and storage medium  
Verfahren, Vorrichtung und Speichermedium zur Erzeugung der  
Farbumsetzungsdefinitionen  
Procede, appareil et support d'enregistrement pour la creation des  
definitions de conversion de couleur

PATENT ASSIGNEE:

FUJI PHOTO FILM CO., LTD., (202407), 210 Nakanuma Minami-ashigara-shi,  
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INVENTOR:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1341370 A2 030903 (Basic)

APPLICATION (CC, No, Date): EP 2003002841 030207;

PRIORITY (CC, No, Date): JP 200255376 020301

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 151

NOTE:

Figure number on first page: 1

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200336	941
SPEC A	(English)	200336	7334
Total word count - document A			8275
Total word count - document B			0
Total word count - documents A + B			8275

...SPECIFICATION For this reason, in the usual printing, a color printed matter is created with four colors including K (black). Therefore, in order to create a **proof** image with greater accuracy, it often happens that **CMYK** four colors are used also in a printer for crating a **proof** image.

Thus, in the event that an image of the printed matter and the **proof** image are created with **CMYK** four colors, the printing profile and the printer profile define a conversion relation between four-dimensional data of **CMYK** and three-dimensional data of colorimetric values, such as  $L^*a^*b^*$  (hereinafter, it is simply denoted in form of Lab). The combined color conversion definition defines four-dimensional data of **CMYK** for printing and four-dimensional data of **CMYK** for a printer.

In the event that the combined color conversion definition is created, four-dimensional data of **CMYK** for printing and four-dimensional data... proof image 61 in accordance with a manner as set forth below, so that finish of the printed image 41 is confirmed beforehand.

When the **proof** image 61 is created, the image data, which is created by the electronic page make-up on the workstation 20, is fed to a personal...

...Language). In the personal computer 80, a so-called RIP (Raster Image Processor) is used to convert the received image data into image data for **CMYK** four colors developed into a bit map. The image data for **CMYK** four colors is substantially same as the image data for printing fed to the film printer 30.

The image data for **CMYK** four colors for printing is converted into

Fig. 9 is a view showing, by way of example, color reproduction areas

...color reproduction ranges 140, which is also obtained in accordance with the above-mentioned printer profile P, when K-color component of dot% data for CMYK for a printer is fixed on a series of dot% such as 0%, 10% ..., 100%. However, since a density of ink for a printer is...

...a density of ink for a printing, the color reproduction ranges 120 for printing are greatly different from the color reproduction ranges 140 for a proof, even if they are common to one another in K-color component of dot% data.

For this reason, there occurs such an inconvenience that a...fashion to that of the step S104, in a state that the computed dot% K'i of K-color is fixed.

Thus, determination of the CMYK dot% (C', M', Y', K') for a printer associated with the CMYK dot% of the lattice points existing as a lattice in the color spaces for printing makes it possible to readily create the combined profile which...

...personal computer 80 shown in Fig. 1, Fig. 2 and Fig. 3 is used to perform the color conversion with such a combined profile, the proof image 61 is created sufficiently making good use of color reproduction ability of the printer 60.

According to the above explanation, as one example of...

7/3,K/5 (Item 3 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01575295

Printing color management system, and printing color management method  
Druckfarbenverwaltungssystem und Druckfarbenverwaltungsverfahren  
systeme de gestion de couleurs d'impression et procede de gestion de  
couleurs d'impression

PATENT ASSIGNEE:

Fuji Photo Film Co. Ltd., (3218111), 210 Nakanuma, Minami-ashigara-shi,  
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Mitsubishi Heavy Industries, Ltd., (1291812), 5-1, Marunouchi 2-chome,  
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Miyakawa, Tadashi Fuji Photo Film Co., Ltd., 798 Miyanodai, Kaisei-machi,  
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Tamagawa, Kiyomi Fuji Photo Film Co., Ltd., 798 Miyanodai, Kaisei-machi,  
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Takemoto, Syuuichi, Paper & Printing Machinery Div, Mitsubishi Heavy  
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Nagai, Hideaki, Paper & Printing Machinery Divis., Mitsubishi Heavy  
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Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1309175 A2 030507 (Basic)

APPLICATION (CC, No, Date): EP 2002023971 021025;

PRIORITY (CC, No, Date): JP 2001334930 011031

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 200

NOTE:

Figure number on first page: 3

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200319	717
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SPEC A	(English)	200319	9819
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Total word count -- document A			10536
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Total word count - document B			0
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Total word count - documents A + B			10536
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...SPECIFICATION output and printing side.

The page producing site shown in Fig. 2 is equipped with a color scanner 90 for reading an original image. RGB- CMYK conversion color matching of an input color processing software 91 creates color separation image data for four colors of C, M, Y and K representative...

...The color separation image data for four colors of C, M, Y and K created in the input color processing software 91 corresponds to the CMYK image data 50 shown in Fig. 1 and referred to as the CMYK image data hereinafter. Installed in a CMYK - CMYK conversion section 92 shown in Fig. 2 is a combination profile for converting image data defined in the CMYK color space for the printing color standard into image data defined in the CMYK color space for the color proof, which combination profile is created in accordance with the creation method similar to that of the combination profile (alpha) explained referring to Fig. 1. When the CMYK image data is fed to the CMYK - CMYK conversion section 92, an upper stream side color proof 53, which is the same in color as a sample 60 as the printing color standard, can be obtained.

The printing site shown in Fig...

7/3,K/6 (Item 4 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01064888

Heat developable color photographic light-sensitive material

Warmeentwickelbares farbphotographisches lichtempfindliches Material

Produit photographique couleur sensible a la lumiere et developpable a la chaleur

PATENT ASSIGNEE:

FUJI PHOTO FILM CO., LTD., (202406), No. 210, Nakanuma

Minami-Ashigara-shi, Kanagawa-ken, (JP), (Applicant designated States: all)

INVENTOR:

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Minami-Ashigara-shi, Kanagawa-ken, (JP)

Taguchi, Toshiki, Fuji Photo Film Co., Ltd., 210, Nakanuma,

Minami-Ashigara-shi, Kanagawa-ken, (JP)

LEGAL REPRESENTATIVE:

HOFFMANN - EITLE (101511), Patent- und Rechtsanwälte Arabellastrasse 4, 81925 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 938025 A1 990825 (Basic)

APPLICATION (CC, No, Date): EP 99102752 990222;

PRIORITY (CC, No, Date): JP 9839324 980220

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;



LU; MC; NL; PT; SE  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: G03C-008/40  
ABSTRACT WORD COUNT: 52

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

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CLAIMS A	(English)	9934	1368
SPEC A	(English)	9934	13811
Total word count - document A			15179
Total word count - document B			0
Total word count - documents A + B			15179

...SPECIFICATION times or more.

Now, a method for reproducing moire on printed matter with a color printer will be described below.

For preparing a printing color **proof** for faithfully reproducing moire on high-resolution printed matter with a low-resolution color printer, each is converted to bit map data b'j of 48800 DPI, with reference to threshold value matrix 24 for each of dot area rate data aj of four plates of **CMYK**. Next, the area rate ci of each color is counted, with reference to the bit map data b'j within a definite range at the...

7/3,K/7 (Item 5 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01046908

Heat developable color photographic material and image-forming system using the same

Warmeentwickelbares photographisches Farbmaterial und bildgebendes System unter Verwendung desselben

Materiau photographique en couleurs developpable a la chaleur et systeme de formation d'image l'utilisant

PATENT ASSIGNEE:

FUJI PHOTO FILM CO., LTD., (202400), 210 Nakanuma Minami-Ashigara-shi, Kanagawa 250-01, (JP), (Proprietor designated states: all)

INVENTOR:

Uehara, Kazuki, Fuji Photo Film Co., Ltd., 210, Nakanuma, Minami Ashigara-shi, Kanagawa-ken 258, (JP)

LEGAL REPRESENTATIVE:

HOFFMANN - EITLE (101511), Patent- und Rechtsanwälte Arabellastrasse 4, 81925 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 926551 A1 990630 (Basic)  
EP 926551 B1 020508

APPLICATION (CC, No, Date): EP 98124423 981222;

PRIORITY (CC, No, Date): JP 97357606 971225; JP 9863264 980313; JP 98176228 980623

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G03C-008/10; G03C-008/40; B41M-005/40; G03F-003/10

ABSTRACT WORD COUNT: 185

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199926	1556
CLAIMS B	(English)	200219	1476
CLAIMS B	(German)	200219	1391
CLAIMS B	(French)	200219	1701
SPEC A	(English)	199926	14947
SPEC B	(English)	200219	15100
Total word count - document A			16507
Total word count - document B			19668
Total word count - documents A + B			36175

...SPECIFICATION proof sheet, in the first place, image data dependent on device (printing, photograph, image sensor, CRT, LED, etc. ), e.g., C, M, Y and K ( **cyan** , **magenta** , **yellow** , **black** ) image data, are once converted into colorimetric value data which are image data non-dependent on device, e.g., X, Y and Z (stimulus values...

...on device are converted into image data dependent on device for a color printer, e.g., R, G, and B (red, green and blue), by **proofer** profile for printing, e.g., printer profile (three dimensional look-up table). Finally, a **proof** comprising a color image formed on a **proof** paper is produced by a color printer (a printer for correction) using this image data dependent on device.

According to this procedure, colors of the...

...a photographic material according to the present invention as a proof system is described referring to the figure.

Fig. 1 shows the constitution of printing **proof** system 10 to which an embodiment of the present invention is applied. Printing **proof** system 10 has color conversion part 12 comprising a computer. Inputted image data dependent on device, e.g., image data for printing of each color of C, M, Y and K, each of which is dot area percentage, (hereinafter simply referred to as **CMYK** image data for printing)  $I_{in} = I_{in}(C, M, Y, K)$  is converted into image data of each color of R, G, B (hereinafter simply referred to as RGB image data)  $I_{out} = I_{out}(R, G, B)$ , then outputted to image output unit as a **proofer** for printing, e.g., printer 14.

In this case, CMYK image data for printing  $I_{in}$  are separated data by three color separation (RGB --> CMYK) of...

...SPECIFICATION a proof sheet, i.e., a proof, can be formed easily a plurality of times in a short time.

For forming a color image for **proof** on a **proof** sheet, in the first place, image data dependent on device (printing, photograph, image sensor, CRT, LED, etc.), e.g., C, M, Y and K ( **cyan** , **magenta** , **yellow** , **black** ) image data, are once converted into colorimetric value data which are image data non-dependent on device, e.g., X, Y and Z (stimulus values...

...on device are converted into image data dependent on device for a color printer, e.g., R, G, and B (red, green and blue), by **proofer** profile for printing, e.g., printer profile (three dimensional look-up table). Finally, a **proof** comprising a color image formed on a **proof** paper is produced by a color printer (a printer for correction) using this image data dependent on device.

According to this procedure, colors of the...

...a photographic material according to the present invention as a proof system is described referring to the figure.

Fig. 1 shows the constitution of printing **proof** system 10 to which an embodiment of the present invention is applied. Printing **proof** system

10 has color conversion part 12 comprising a computer. Inputted image data dependent on device, e.g., image data for printing of each color of C, M, Y and K, each of which is dot area percentage, (hereinafter simply referred to as **CMYK** image data for printing)  $I_{in} = I_{in}(C, M, Y, K)$  is converted into image data of each color of R, G, B (hereinafter simply referred to as **RGB** image data)  $I_{out} = I_{out}(R, G, B)$ , then outputted to image output unit as a **proofer** for printing, e.g., printer 14.

In this case, **CMYK** image data for printing  $I_{in}$  are separated data by three color separation (**RGB** - **CMYK**) of...

7/3,K/8 (Item 6 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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00934385

**Color transforming method**

**Farbtransformationsverfahren**

**Procede de transformation de couleurs**

**PATENT ASSIGNEE:**

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Kanagawa-ken, (JP), (Applicant designated States: all)

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**LEGAL REPRESENTATIVE:**

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**PATENT (CC, No, Kind, Date):** EP 851669 A2 980701 (Basic)  
EP 851669 A3 990929

**APPLICATION (CC, No, Date):** EP 97122897 971224;

**PRIORITY (CC, No, Date):** JP 96348824 961226

**DESIGNATED STATES:** DE; FR; GB

**EXTENDED DESIGNATED STATES:** AL; LT; LV; MK; RO; SI

**INTERNATIONAL PATENT CLASS:** H04N-001/60

**ABSTRACT WORD COUNT:** 302

**NOTE:**

Figure number on first page: 1

**LANGUAGE (Publication,Procedural,Application):** English; English; English  
**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9827	428
SPEC A	(English)	9827	5674
Total word count - document A			6102
Total word count - document B			0
Total word count - documents A + B			6102

...SPECIFICATION hard copies such as those produced by printing or soft copies such as those produced by CRT display devices, colors are generally reproduced by performing **area (dot percent)** or density modulation of **CMYK** or **RGB** on a support. Many methods have been proposed with a view to achieving colorimetric agreements using such devices and media. Aside from the...

7/3,K/9 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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014604453      \*\*Image available\*\*

WPI Acc No: 2002-425157/200245

XRPX Acc No: N02-334295

Color reproduction characteristic display apparatus for proof image  
creating system, displays patch coordinate value on CMYK color space,  
and information about distance between two coordinates on another color  
space

Patent Assignee: FUJI PHOTO FILM CO LTD (FUJF )

Inventor: KONDO H

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020036787	A1	20020328	US 2001964496	A	20010928	200245 B
JP 2002112055	A	20020412	JP 2000296677	A	20000928	200245

Priority Applications (No Type Date): JP 2000296677 A 20000928

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20020036787	A1		18	B41J-001/00	
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JP 2002112055	A		14	H04N-001/60	
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Color reproduction characteristic display apparatus for proof image  
creating system, displays patch coordinate value on CMYK color space,  
and information about distance between two coordinates on another color  
space

7/3,K/10      (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013352270      \*\*Image available\*\*

WPI Acc No: 2000-524209/200047

XRPX Acc No: N00-387490

Color correcting method creating print profiles to convert CMYK data to  
colorimetric value data

Patent Assignee: FUJI PHOTO FILM CO LTD (FUJF )

Inventor: KONDO H

Number of Countries: 005 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200042764	A1	20000720	WO 2000JP174	A	20000117	200047 B
JP 2000278547	A	20001006	JP 20006963	A	20000114	200056
EP 1071275	A1	20010124	EP 2000900410	A	20000117	200107
			WO 2000JP174	A	20000117	
US 6324975	B1	20011204	WO 2000JP174	A	20000117	200203
			US 2000646400	A	20000918	

Priority Applications (No Type Date): JP 999875 A 19990118

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200042764	A1	J	40	H04N-001/60	
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Designated States (National): US

Designated States (Regional): DE FR GB

JP 2000278547	A		14	H04N-001/60	
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EP 1071275	A1	E		H04N-001/60	Based on patent WO 200042764
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Designated States (Regional): DE FR GB

US 6324975	B1			B41F-001/10	Based on patent WO 200042764
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Abstract (Basic):

... Color chart (Cpa) colors are measured by colorimeters (42) to create print profile for converting **CMYK** image data to colorimetric value data. **CMYK** image data is output by printer (16) using print profile and printer profile to make a color chart (Cpa') to serve as **proof**. Color chart (Cpa') is subjected to colorimetric measurement and print color reproduction profile (26') is created.

... Color chart (Cpa) colors are measured by colorimeter (42) and print profile (26) for converting **CMYK** image data to colorimetric value data is created. **CMYK** image data is output by printer (16) using print profile and printer profile to make a color chart (Cpa') to serve as a **proof**. Color chart (Cpa') is subjected to colorimetric measurement and print color reproduction profile (26') is created. Print color reproduction profile (26') is corrected using weight...

?